

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SUPPLEMENTAL INDEX

(NOTE: FOR ALL OTHER SHEETS SEE SUPPLEMENTAL INDEX)



CITY OF SAN ANTONIO DEPARTMENT OF CAPITAL IMPROVEMENTS MANAGEMENT SERVICES

SALADO CREEK BRIDGE

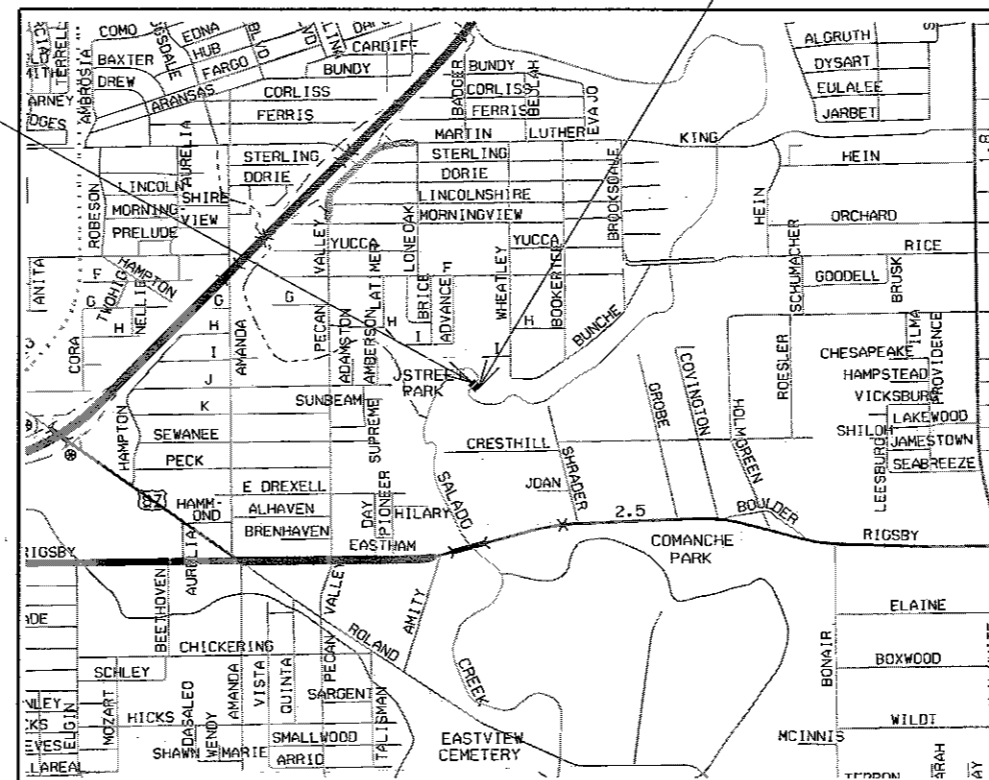
PROJECT NO.: 23-00904

LIMITS: CROSSING OVER SALADO CREEK
PROJECT LENGTH: 0.059 MILES

END PROJECT
STA 510+40.00

BEGIN PROJECT
STA 507+30.00

LOCATION MAP



EXCEPTIONS: NONE
EQUATIONS: NONE
RAILROAD CROSSING: NONE

SCALE: N.T.S.

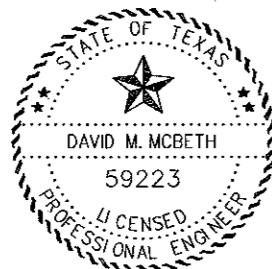
CLASSIFICATION: NA
DESIGN SPEED: NA
AVERAGE DAILY TRAFFIC: NA
AREA OF DISTURBED SOIL: LESS THAN 0.1 ACRE

FINAL PLANS

LETTING DATE: _____
DATE CONTRACTOR BEGAN WORK: _____
DATE WORK ACCEPTED: _____
FINAL CONTRACT COST: \$ _____
CONTRACTOR: _____

"TDLR INSPECTION REQUIRED"
"TDLR NO.: _____"

PLANS PREPARED BY:



The seal appearing on this document was authorized by
David M. McBeth
P.E. 59223#

February 10, 2012

David M. McBeth

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, JUNE 1, 2004 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRE CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273) (MARCH 1994)

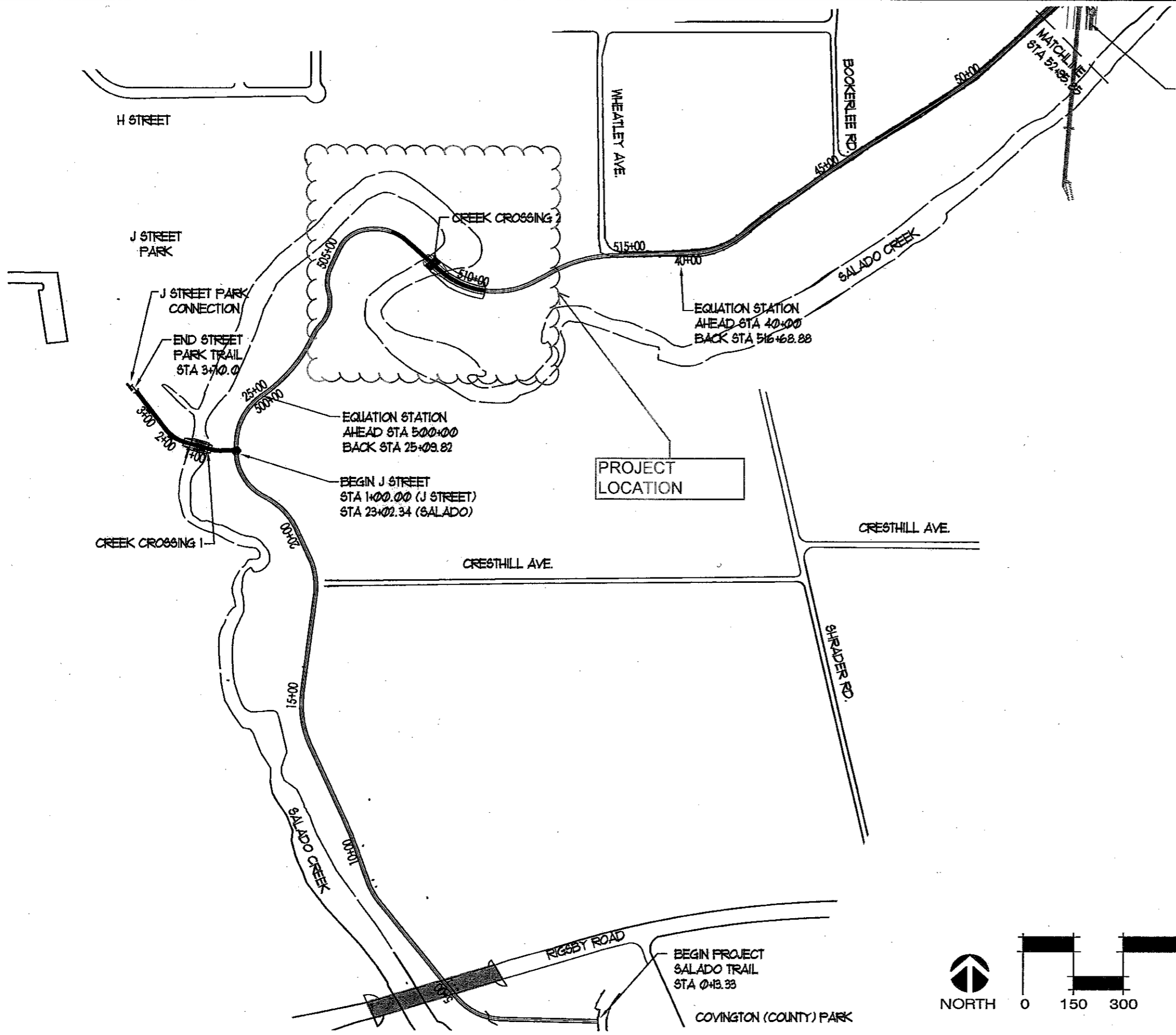
CITY OF SAN ANTONIO	
APPROVED FOR LETTING:	
CITY ENGINEER / DIRECTOR CAPITAL IMPROVEMENTS MANAGEMENT SERVICES	

COUNTY: BEXAR
PROJ. NO.:
HWY. NO.:
DATE ACCEPTED:
LETTING DATE:

INDEX OF SHEETS

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CITY OF SAN ANTONIO			
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
SALADO CREEK BRIDGE			
INDEX SHEET			
100 % SUBMITTAL	PROJECT NO. 23-00904	DATE: FEB 2012	
DRWN. BY: BFT	DSGN. BY: BFT	CHKD. BY: DMM	SHEET NO.: 1 OF 1

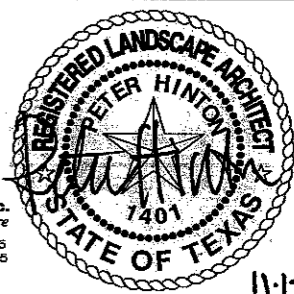


COORDINATE W/ SANS PROJECTS
LOCATED IN THE GENERAL AREA
(NO. 99-4508 & NO. 99-4509)

LEGEND
[Patterned Box] = EXISTING BRIDGE



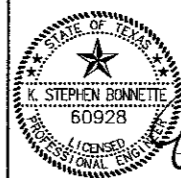
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Landscape Architecture
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f. 210.828.1399



11/17/09



555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 | PHONE: 210.375.9000
FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470



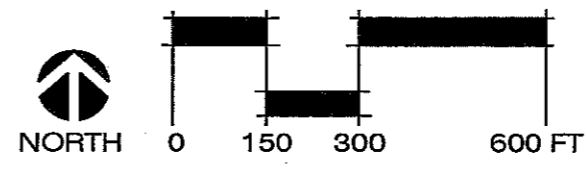
[Signature] 11/18/09
K. STEPHEN BONNETTE P.E. DATE

CITY OF SAN ANTONIO

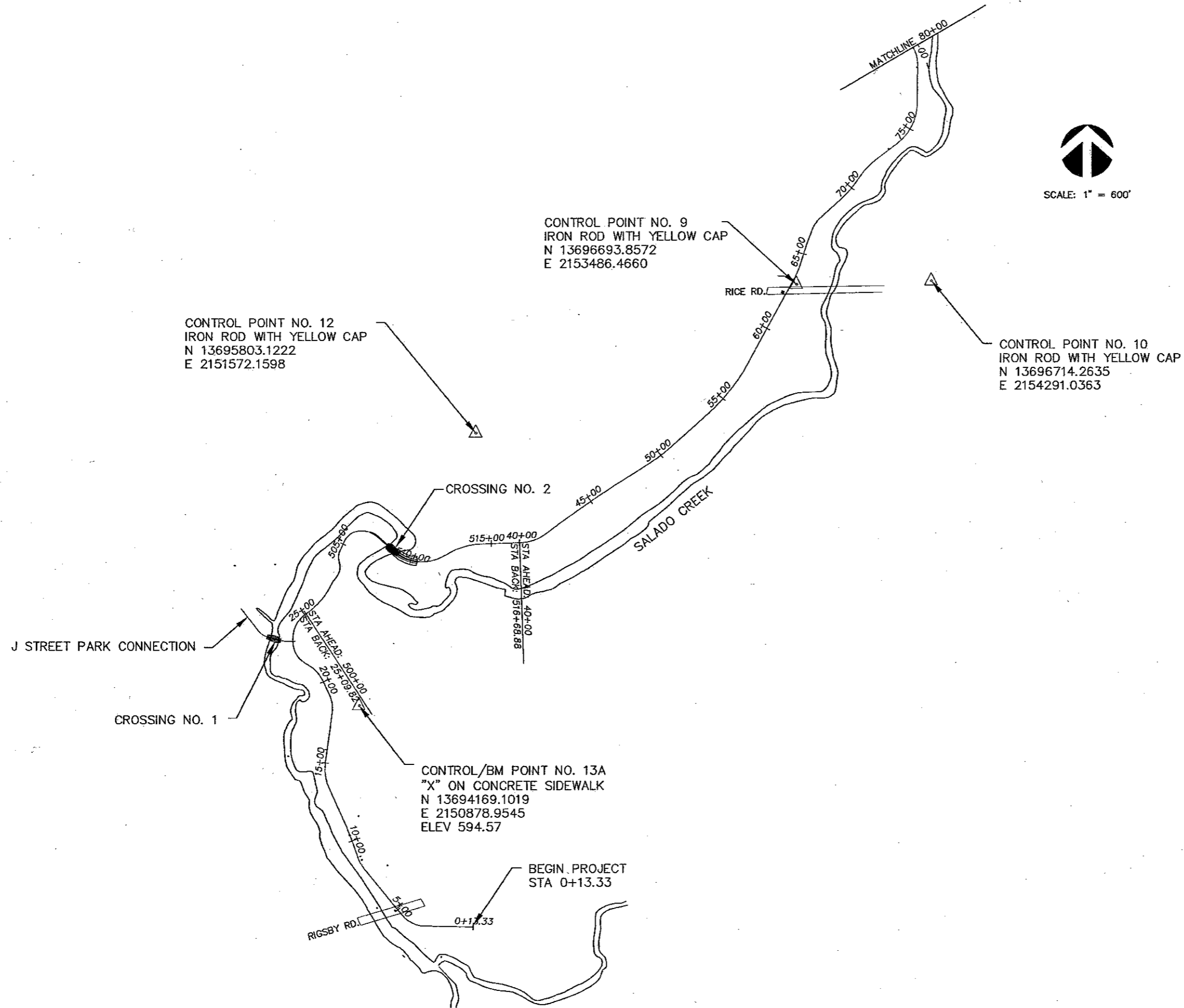
PROJECT LAYOUT #1

SHEET 1 OF 4

JOB NO.		PROJECT NO.					
0915		STP 2000 (624) TE					
CONTROL	SECTION	JOB	DIST.	STATE	COUNTY	HIGHWAY NO.	SHEET NO.
0915	12	375	SAT	TX	BEXAR		3



Date: Nov 18, 2009, 3:15pm User ID: GDMHiner
File: P:\48\64\01\Design\civil\Plontheats\HorizControl.dwg



SCALE: 1" = 600'

NOTES:

THE BEARINGS FOR THIS SURVEY ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (CORS 1996), FROM THE TEXAS COORDINATE SYSTEM ESTABLISHED FOR THE SOUTH CENTRAL ZONE.

THE ELEVATIONS FOR THIS SURVEY ARE BASED ON NAVDS, FROM BENCHMARKS

PAPE-DAWSON ENGINEERS

555 EAST RAMSEY | SAN ANTONIO, TEXAS 78216 | PHONE: 210.375.9000
FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470



[Signature]
K. STEPHEN BONNETTE P.E. DATE 11/18/09

CITY OF SAN ANTONIO

HORIZONTAL CONTROL

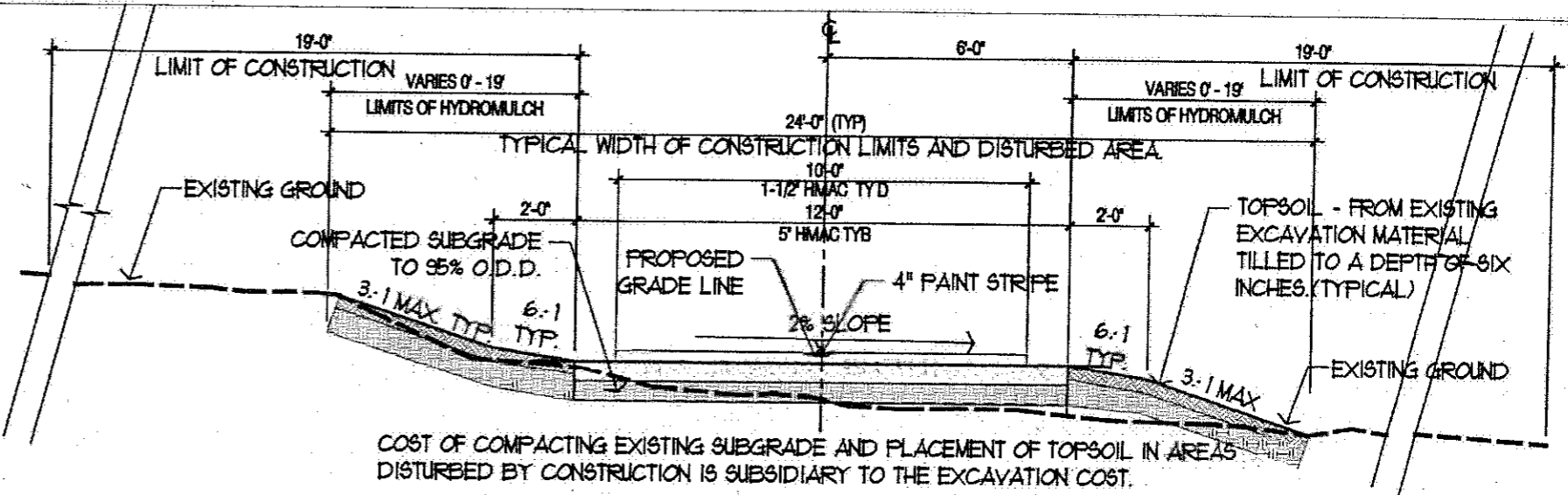
SHEET 1 OF 2

DATE	PROJECT NO.
CK: 09/15	STP 20096240 TE
DW: 12	CONTROL SECTION
CK: 09/15	JOB DIST. STATE COUNTY HIGHWAY NO. SHEET NO.
	0915 12 375 SAT TX BEXAR SALADO H&B1 009

CONCRETE TRAIL JOINT NOTES:

Joints. Unless otherwise specified on plans or as agreed to by Engineer, tooled joints with rounded edges will be placed every ten feet (10') and will be opened with one-half inch (1/2") radius by one and one-half inch (1 1/2") depth and closed by one-half inch (1/2") radius by one-inch (1") depth.

- 1. Expansion Joints.** Provide sidewalk sections separated by pre-molded or board joint 1/2" inch thick, or as shown on the plans, in lengths greater than 8 feet but less than 50 feet, unless otherwise directed. Terminate workday production at an expansion joint. Expansion joint material shall also be placed where the new construction abuts the existing curbs or driveways if the Engineer deems it necessary. The expansion joint material shall be placed vertically and shall extend the full depth and width of the concrete.
- 2. Expansion Joint Dowels.** Unless otherwise shown on the plans, a minimum of two (2) round smooth dowel bars 3/8 inch in diameter and 18 inches in length shall be spaced 18 inches apart at each expansion joint. Nine inches (9") of each dowel shall be thoroughly coated with hot oil asphalt or greased, so that it will not bond to the concrete. Approved types of slip joints may be used in lieu of coating ends of dowels.
- 3. Transverse Joints.** Sidewalks shall be marked with transverse "dummy" joints every 10 feet by the use of City approved jointing tools.



CONTRACTOR TO PROVIDE POSITIVE DRAINAGE IN ALL DISTURBED AREAS. MINIMUM SLOPES IN DISTURBED AREAS SHALL BE 2%. MAXIMUM SLOPES SHALL BE 3:1

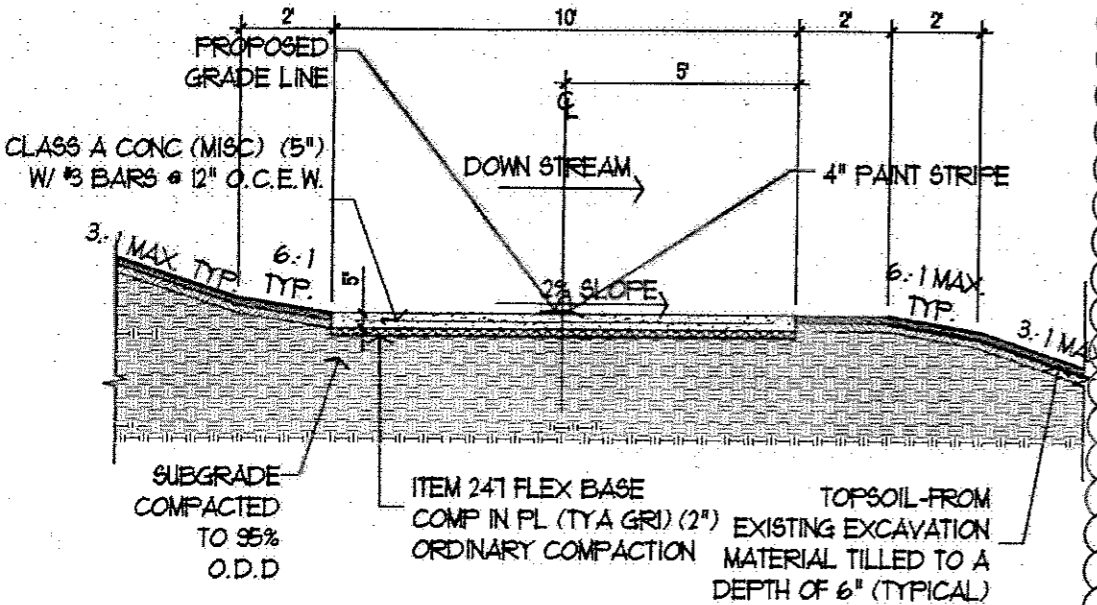
CONTRACTOR TO PROVIDE AND PLACE TOPSOIL, HYDROSEED NEW GRASS AND MAINTAIN UNTIL 70% COVERAGE IS ACHIEVED IN ALL DISTURBED AREAS.

CONTRACTOR TO KEEP DISRUPTION OF SOIL AND EXISTING VEGETATION TO A MINIMUM REQUIRED FOR CONSTRUCTION.

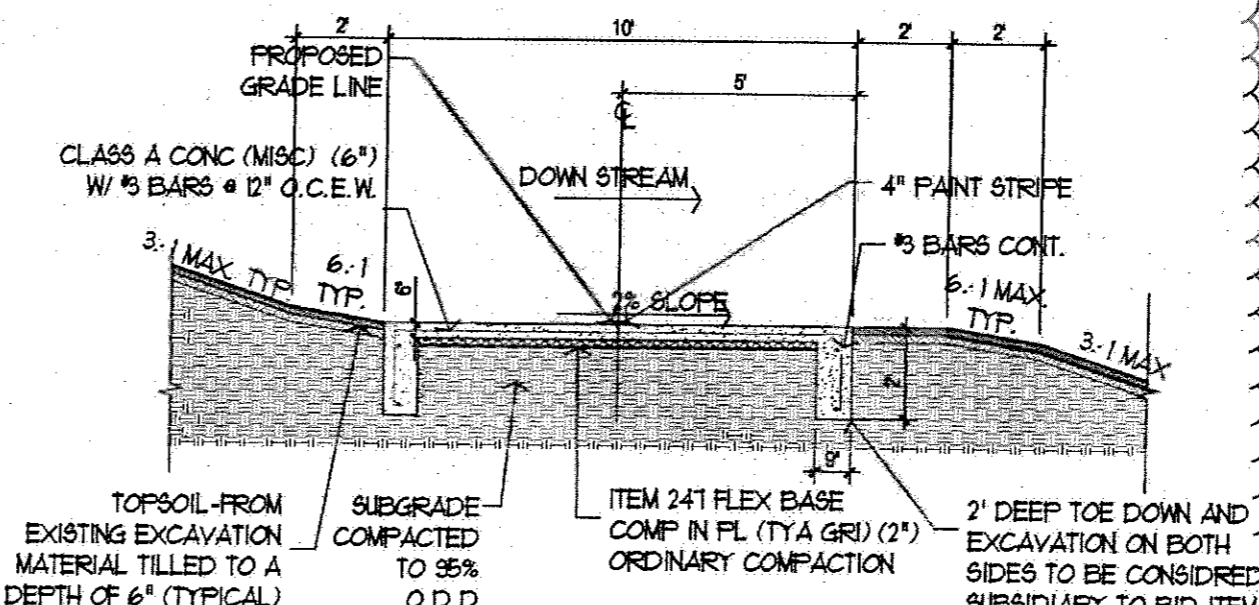
1 TYPICAL SECTION: ASPHALT HIKE & BIKE TRAIL
N.T.S. BASE

CONCRETE TRAIL TYPICAL

NOTE: REFER TO ATTACHED CITY OF SAN ANTONIO RIP-RAP STANDARD DETAIL SHEET



3 TYP SECTION: ASPHALT TRAIL ALT 1A
N.T.S. (NOTE: CONCRETE TRAIL TO BE SUBSTITUTED IN PLACE OF ASPHALT TRAIL FOR ALTERNATE BID)



2 TYP SECTION: CONCRETE TRAIL
N.T.S. (NOTE: SEE PLAN & PROFILE SHEETS FOR CONCRETE TRAIL LIMITS)



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11-17-09



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TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470



Scott D. Armstrong 1/3/10
DATE

CITY OF SAN ANTONIO

TYPICAL SECTIONS
& DETAILS

DN										PROJECT NO.	
CK DN										STP 2000 (624) TE	
DN	CONTROL	SECTION	JOB	DIST.	STATE	COUNTY	HIGHWAY NO.			SHEET NO.	
CK DN	0915	12	375	SAT	TX	BEXAR					

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008, OR LATEST.
2. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
3. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM).
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". THE CITY'S CONSTRUCTION INSPECTOR AND TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR, THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED.
6. IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
7. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
8. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED.
9. CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION OPERATION:

SAN ANTONIO WATER SYSTEM (SAWS)	233-2010
BEXAR METROPOLITAN WATER DISTRICT (BEXAR MET)	354-6538 /357-5741
COSA DRAINAGE	207-8048
COSA SIGNAL OPERATIONS	207-7720 /207-7765
TEXAS STATE WIDE ONE CALL LOCATOR	1-800-344-8377
- CITY PUBLIC SERVICE ENERGY	
- TIME WARNER	
- AT&T	
- MCI	
11. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND HE SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
12. ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.
13. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.
14. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND /OR TRACKED CONSTRUCTION MATERIALS AND /OR DEBRIS.
15. IF THE CONTRACTOR ENCOUNTERS ANY ARCHAEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST STOP EXCAVATION IMMEDIATELY, CONTACT THE CITY INSPECTOR, AND CALL THE CITY HISTORIC PRESERVATION OFFICE AT 207-7306 OR 207-3327 FOR AN ARCHAEOLOGICAL INVESTIGATION. THE CONTRACTOR CANNOT BEGIN EXCAVATION AGAIN WITHOUT WRITTEN PERMISSION FROM THE CITY.

IF MORE THAN THREE (3) DAYS ARE REQUIRED FOR INVESTIGATION (NOT INCLUDING HOLIDAY AND WEEKENDS) AND IF THE CONTRACTOR IS UNABLE TO WORK IN OTHER AREAS, THEN THE CONTRACTOR WILL BE ALLOWED TO NEGOTIATE FOR ADDITIONAL CONSTRUCTION TIME UPON WRITTEN REQUEST WITHIN TEN (10) DAYS AFTER THE FIRST NOTICE TO THE CITY OF ARCHAEOLOGICAL INVESTIGATION FOR EACH EVENT.

IF THE TIME REQUIRED FOR INVESTIGATION IS LESS THAN OR EQUAL TO THREE (3) DAYS FOR EACH EVENT, CONTRACT DURATION WILL NOT BE EXTENDED.
16. IF SUSPECTED CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION OPERATIONS, C.O.S.A. SHALL BE NOTIFIED IMMEDIATELY WHEN CONTAMINATED SOILS AND /OR GROUNDWATER ARE ENCOUNTERED AT LOCATIONS NOT IDENTIFIED IN THE PLANS. THE NOTIFICATION SHOULD INCLUDE THE STATION NUMBER, TYPE OF CONTAMINATED MEDIA, EVIDENCE OF CONTAMINATION AND MEASURES TAKEN TO CONTAIN THE CONTAMINATED MEDIA AND PREVENT PUBLIC ACCESS. THE CONTAMINATED SOIL AND /OR GROUNDWATER SHALL NOT BE REMOVED FROM THE LOCATION WITHOUT PRIOR C.O.S.A. APPROVAL.

THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE C.O.S.A. INSPECTOR. THE CONTRACTOR CANNOT BEGIN EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE CITY.
17. CONTRACTOR IS TO INCLUDE A MAILBOX POST BLOCKOUT FOR VACANT LOTS AND ALL RESIDENCES WHICH DO NOT HAVE MAILBOXES AT THE CURB. BLOCKOUTS ARE PROVIDED FOR FUTURE USE BY THE POST OFFICE.

18. CONTRACTOR SHALL NOT REMOVE OR ADJUST ANY VIA FACILITIES. THE CONTRACTOR MUST CONTACT VIA FOURTEEN DAYS PRIOR, FOR THE REMOVAL OF BENCHES, STOP POLES OR ANY OTHER VIA FACILITIES THAT MAY BE PRESENT. PLEASE PROVIDE THIRTY DAYS PRIOR NOTICE FOR SHELTER REMOVAL (TELEPHONE NOS: (210) 362-2155 OR (210) 362-2096). THE CONTRACTOR WILL BE LIABLE FOR ANY DAMAGES TO VIA FACILITIES NOT REMOVED BY VIA. THE CONTRACTOR IS REQUIRED TO REPLACE ALL FLATWORK REMOVED OR DAMAGED IN THE COURSE OF EXECUTING THE CONTRACT UNLESS OTHERWISE NOTED BY VIA. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING VIA FACILITIES IF ADJACENT TO WORK AREA.

TREE PROTECTION AND PRESERVATION GENERAL NOTES

1. NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX-INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM).
3. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR GUIDANCE.
4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.
5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).
6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.
7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OF TREE'S DIAMETER. A 10-INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT.
8. SAPLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR.
9. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.
10. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT-OF-WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A-300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21-171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.
11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.
12. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND /OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM).
13. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT.
14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207-0278)
15. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION.
16. TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

ACCESSIBILITY REQUIREMENTS

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.
2. WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND SIDEWALKS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY ALL-WEATHER ACCESS TO THE BUSINESSES AND RESIDENCES. THE TEMPORARY DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH FLEXIBLE BASE OR GRAVEL MATERIAL AT NO SEPARATE COST TO THE CITY.
3. PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, THE CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING, OF AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED, SO THAT ALTERNATE PLANS MAY BE MADE BY THE RESIDENTS.
4. FOR BUSINESSES WITH MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY APPROACHES ARE CONSTRUCTED. FOR BUSINESSES WITH ONLY ONE DRIVEWAY, THE NEW DRIVEWAY APPROACH SHALL BE CONSTRUCTED IN HALF WIDTHS, UNLESS A TEMPORARY ASPHALT DRIVEWAY IS FIRST INSTALLED AT NO SEPARATE COST TO THE CITY.

DECEMBER 2009

CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

CITY OF SAN ANTONIO
GENERAL NOTES

% SUBMITTAL	PROJECT NO.:	DATE:
DRAWN BY:	DSGN BY:	CHKD BY:
		SHEET NO. OF

THE FOLLOWING CHANGES ARE MADE TO THE CITY OF SAN ANTONIO'S GENERAL NOTES:

ADDITIONAL NOTES

TREE PROTECTION AND PRESERVATION GENERAL NOTES.

17. AFTER THE CONTRACTOR EVALUATES THE EXISTING TREES AND DETERMINES THAT CLEARING OR TRIMMING IS REQUIRED TO ASSEMBLE AND SET THE BRIDGE, CONTACT THE ENGINEER TO COORDINATE A FIELD MEETING WITH THE CITY ARBORIST PRIOR TO COMMENCING WORK.

NOTE MODIFICATION

1. MODIFY NOTE NO. 1 - TXDOT 2004 SPECIFICATIONS

CONSULTANT NAME			
STREET NUMBER AND ADDRESS			
CITY		STATE	ZIP CODE
TELEPHONE NUMBER	FAX NUMBER	INTERNET ADDRESS	
CITY OF SAN ANTONIO			
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
PROJECT TITLE			
SUPPLEMENTAL GENERAL NOTES			
% SUBMITTAL		PROJECT NO.:	DATE:
DRAWN BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: OF

Project Number: 23-00904
County: Bexar
General Notes Sheet A

*****GENERAL NOTES*****
2004 Specification Book (Revised August 8, 2011)

G-5 To better fit field conditions, the cross sections may be varied when approved.

G-6 If there are waste areas or material source areas, follow the Texas Aggregate Quarry and Pit Safety Act requirements.

G-7 Any materials removed and not reused and determined to be salvageable shall be stored within the project limits at an approved location or delivered undamaged to the storage yard as directed. Properly dispose unsalvageable materials in accordance with local, state, and federal regulations. Deface traffic signs so that they will not reappear in public as signs.

5-4B. The earthwork information was not developed with computers; therefore, a CD can not be provided. Prior to letting, earthwork cross-sections will be available at the Engineer's office for review by the bidder or for borrowing by copying companies to make copies at the bidder's expense.

5-5 When working near aerial electrical lines or utility poles, comply with Federal, State and local regulations. For electrical lines and poles shown in the plans, if the lines need to be de-energized or if poles need to be braced, contact the electrical company. Work pertaining to de-energizing lines, bracing poles and other protective measures will not be paid by TxDOT or the City of San Antonio.

5-6 Prevention of Migratory Bird Nesting

It is anticipated that migratory birds, a protected group of species, may try to nest on bridges, culverts, vegetation, or gravel substrate, at any time of the year. The preferred nesting season for migratory birds is from February 15 through October 1. When practicable, schedule construction operations outside of the preferred nesting season. Otherwise, nests containing migratory birds must be avoided and no work will be performed in the nesting areas until the young birds have fledged.

Structures

Bridge and culvert construction operations can not begin until swallow nesting prevention is implemented, until after October 1 if it's determined that swallow nesting is actively occurring, or until it's determined swallow nests have been abandoned. If the State installed nesting deterrent on the bridges and culverts, maintain the existing nesting deterrent to prevent swallow nesting until October 1 or completion of the bridge and culvert work, whichever occurs earlier. If new nests are built and occupied after the beginning of the work, do not perform work that can

Project Number: 23-00904
County: Bexar
General Notes Sheet B

interfere with or discourage swallows from returning to their nests. Prevention of swallow nesting can be performed by one of the following methods:

1. By February 15 begin the removal of any existing mud nests and all other mud placed by swallows for the construction of nests on any portion of the bridge and culverts. The Engineer will inspect the bridges and culverts for nest building activity. If swallows begin nest building, scrape or wash down all nest sites. Perform these activities daily unless the Engineer determines the need to do this work more frequently. Remove nests and mud through October 1 or until bridge and culvert construction operations are completed.

2. By February 15 place a nesting deterrent (which prevents access to the bridge and culvert by swallows) on the entire bridge (except deck and railing) and culverts.

No extension of time or compensation payment will be granted for a delay or suspension of work caused by nesting swallows. This work is subsidiary to the various bid items.

—Item 5—

5-7 Use Provide a non-intrusive back-up alarm system on all heavy equipment used in close proximity to if work is residential areas. This item is subsidiary to various bid items.
required in residential areas.

—Item 6—

6-1 Show the stockpile lot and/or sub lot numbers on all tickets for all materials.

—Item 7—

7-2 The total disturbed areas within the project is anticipated at less than one (1) acre. Due to this type of construction, the project qualifies for exclusion under the Construction General Permit (CGP) issued by the Texas Commission on Environmental Quality (TCEQ) on March 5, 2008. However, should the sum of the Engineer's anticipated disturbances and the Contractor's (On ROW and off ROW) PSL's equal or exceed the one (1) acre threshold; both TxDOT and the Contractor have project responsibilities under the CGP that reverts to non-exclusion status. Obtain approval for all non-depicted areas of disturbance that increases the initial soil and vegetation disturbed area estimates before work starts at these locations.

7-3 Notify the Engineer of the disturbed acreage within one (1) mile of the project limits. Obtain authorization from the TCEQ for Contractor PSL's for construction support activities on or off ROW.

—Item 8—

8-2 The number of working days and interim milestones, if any, were calculated using a conceptual time determination schedule that assumes generic resources, production rates, sequences of construction and average weather conditions based on historic data. If requested, the Engineer

CITY OF SAN ANTONIO			
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
SALADO CREEK BRIDGE			
GENERAL NOTES			
TXDOT			
100 % SUBMITTAL	PROJECT NO.: 23-00904	DATE: FEB 2012	
DRAWN BY: BFT	DSGN BY: BFT	CHKD BY: DMM	SHEET NO.: OF

Project Number: 23-00904
County: Bexar
General Notes Sheet C

will supply bidders a CD of the time determination schedule compatible with Primavera Project Planner software. The time determination schedule is provided for informational use only and is not intended for bidding or construction purposes. If the schedule is used for bidding or construction purposes, the bidder accepts the schedule and assumes the responsibility for verifying all aspects of the schedule. The department will not adjust the number of working days and milestones, if any, due to differences in opinion regarding any assumptions made in the preparation of the schedule or for errors, omissions or discrepancies found in the schedule.
8-2A

—Item 9—

9-1 When approved, provide uniformed, off-duty law enforcement officers with marked vehicles during work that requires a lane closure. The officer in marked vehicles shall be located as approved to monitor or direct traffic during the closure. The method used to direct traffic at signalized intersections shall be as approved. Additional officers and vehicles may be provided when approved or directed.
Complete the daily tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided. Minimums, scheduling fees, etc. will not be paid; TxDOT will consider paying cancellation fees on a case by case basis.

—Item 420—

420-1 Mass concrete will be measured in place.

420-2 Restrict large aggregate size to ** maximum for class *C* concrete used in aesthetic details requiring form liners.

—Item 500—

500-1 "Materials on Hand" payments will not be considered in determining percentages for mobilization payments.

—Item 502—

502-1 Place standard markings no later than 14 days after surface treatment operations are completed.

502-4 After written notification, the time frame to provide properly maintained signs and barricades before considered in non-compliance is 48 hours from receipt of the notification.

Project Number: 23-00904
County: Bexar
General Notes Sheet D

502-8 Notify the Engineer 5 business days in advance of any temporary or permanent lane, ramp, connector, etc. closures/detours, restrictions to lane widths, alterations to vertical clearances, or modifications to radii. Any other modifications to the roadway that may adversely affect the mobility of oversized/overweight trucks also require 5 business days advance notice to the Engineer. Unless shown in the TCP, no lane, ramp, connector, etc. closures are allowed during special events. At least one lane has to remain open at all times. For all lane closures, provide written closure information by 1:00PM on the business day prior to the closure. For closures on a Monday or following a Holiday, furnish the information the workday prior to the closure. Lane closures will not be allowed if this reporting requirement is not met.
502-11 In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have an employee available to respond on the project for emergencies and for taking corrective measures within 2 hours or within a reasonable time frame as specified by the Engineer.

CITY OF SAN ANTONIO			
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
SALADO CREEK BRIDGE			
GENERAL NOTES			
TXDOT			
100 % SUBMITTAL	PROJECT NO.: 23-00904	DATE: FEB 2012	
DRWN. BY: BFT	DSGN. BY: BFT	CHKD. BY: DMM	SHEET NO.: OF

ROADWAY SUMMARY

100	110	132	160	164	168	416
2002	2001	2003	2003	2027	2001	2002
PREPARING ROW	EXCAVATION (ROADWAY)	EMBANKMENT (FINAL) (ORD COMP) (TYP A)	FURNISHING AND PLACING TOPSOIL	CELL FBR MLCH SEED (PERM)(URBAN) (CLAY)	VEGETATIVE WATERING	DRILL SHAFT (24IN)
STA	CY	CY	SY	SY	MG	LF
3.0	500.0	1,125.0	100.0	1,605.0	25.0	148.0

420	420	442	454	500	502	752
2003	2045	2032	2004	2001	2001	2022
CL C CONC (ABUT)	CLA A CONC (MISC) (6")	STR STL (BRIDGE SUPERSTRUCTURE)	ARMOR JOINT	MOBILIZATION	BARRICADES, SIGNS, TRAFFIC HANDLING	TREE REMOVAL (4"-12" DIA)
CY	SY	LS	LF	LS	MO	EA
9.7	377.0	1.0	24.0	1.0	2.0	20.0

CITY OF SAN ANTONIO			
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
SALADO CREEK BRIDGE			
ROADWAY SUMMARY			
100 % SUBMITTAL	PROJECT NO.: 23-00804	DATE: FEB 2012	
DRWN. BY: BFT	DSGN. BY: BFT	CHKD. BY: DMM	SHEET NO.: 1 OF 1

SALADO CREEK BRIDGE PROJECT

SEQUENCE OF CONSTRUCTION WORK

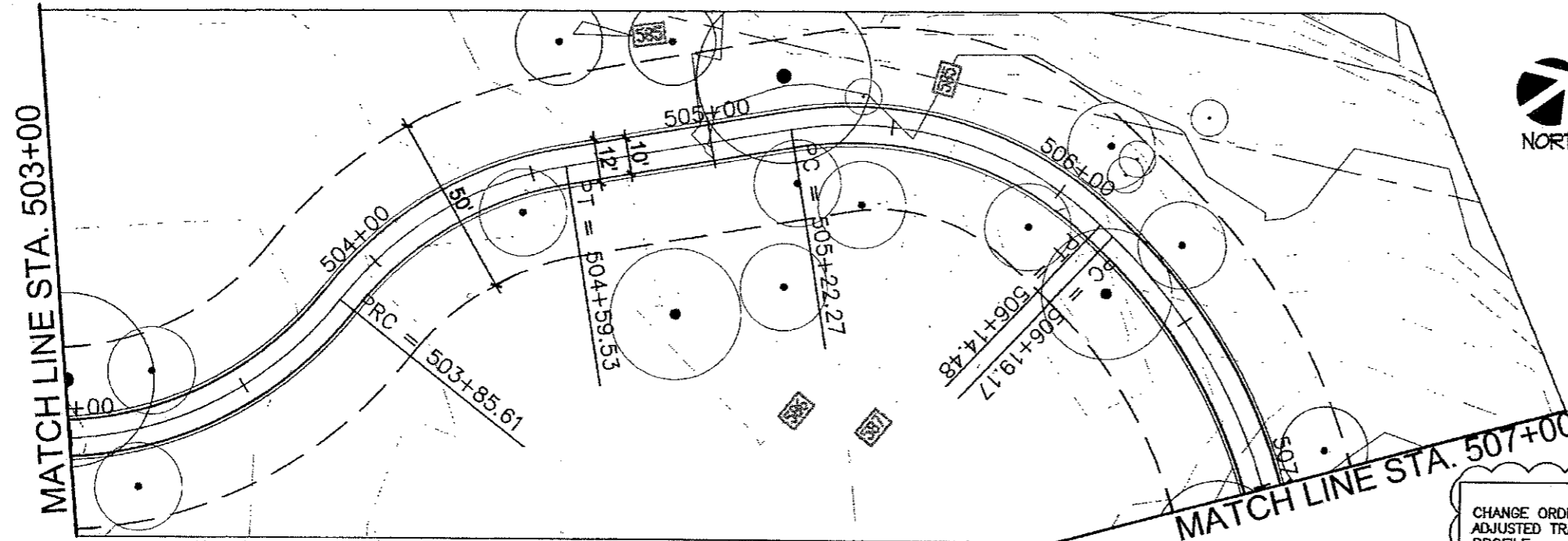
General:

1. Install barricades and traffic control devices in accordance with the TMUTCD. Place barricades at each entrance to the project site to deter the public from entering the construction zone.
2. Contractor to work within the existing cleared trail in as much as possible. If additional clearing is required for this project, please notify the Engineer for prior approval.
3. Contractor will clean up and remove from the work area all loose material or trash resulting from the construction operations at the end of each work day.
4. Contractor will not be allowed to stage materials along the existing hike and bike trail outside of the project limits. Staging area location shall be coordinated with Engineer prior to commencing work.
5. Contractor shall plan and submit a staging, assembly and bridge placement plan and submit to the Engineer within 30 days of the notice to proceed.

Sequence of Work:

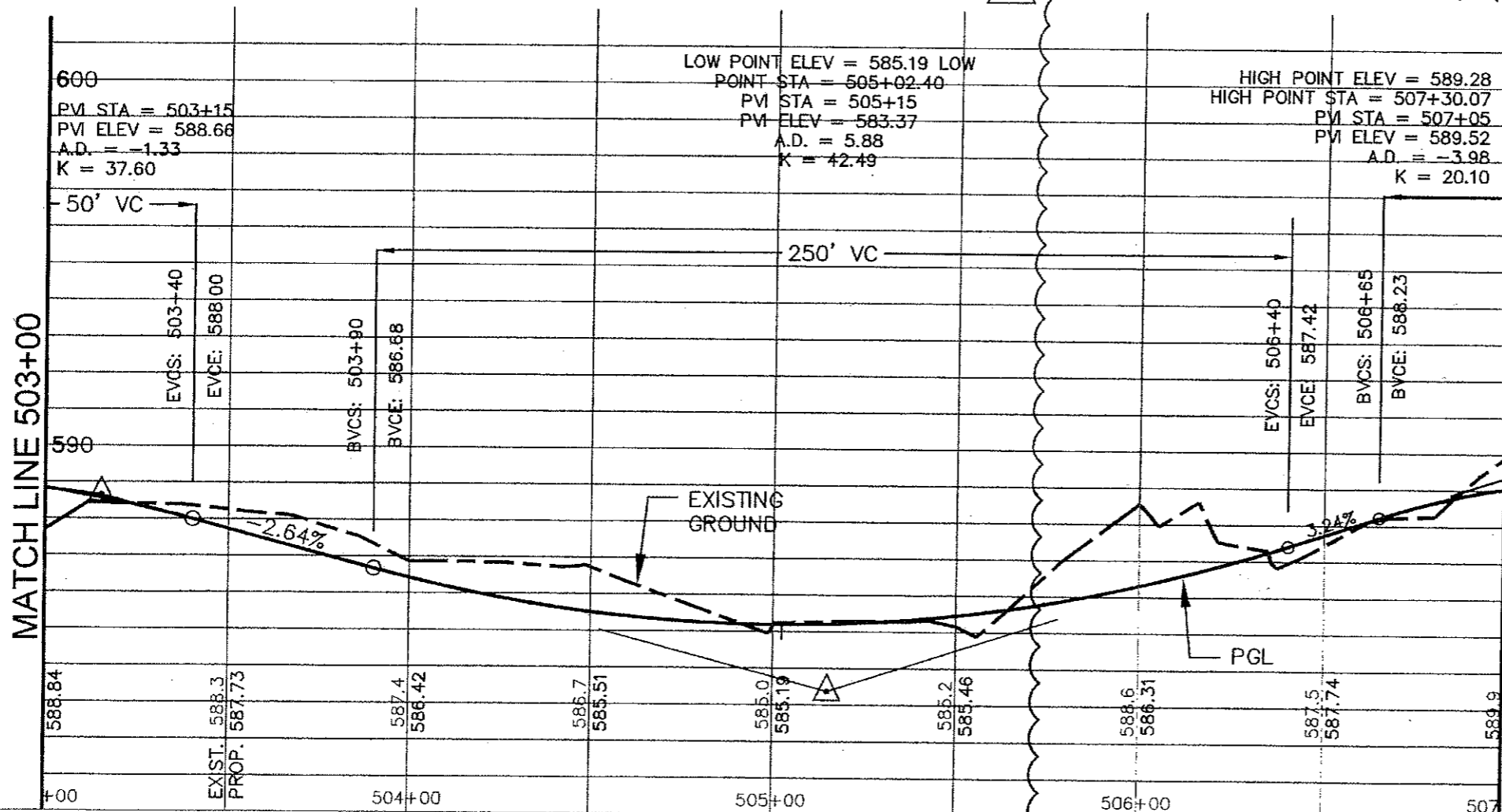
1. Initiate shop drawing preparations for pre-fabricated steel bridge
2. Obtain approval of shop drawings.
3. Initiate bridge fabrication
4. Install needed SWPPP BMP's for erosion control.
5. Install barricades and traffic control devices.
6. Construct concrete bridge abutments.
7. Perform as built survey of abutments for conformance with bridge dimensions.
8. Perform rough grading and compaction of trail subgrade profiles.
9. Prepare staging area for bridge delivery and assembly.
10. Delivery of bridge and assembly.
11. Set steel bridge on abutments, complete installation.
12. Place reinforcement and pour concrete decking on bridge.
13. Final subgrade preparation on trail connections.
14. Construction of remaining concrete trail connections.
15. Topsoil and seeding of disturbed areas, water until 70% vegetation established.
16. Clean up site and prepare for final inspection.

CITY OF SAN ANTONIO			
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
SALADO CREEK BRIDGE			
NARRATIVE			
SEQUENCE OF WORK			
100 % SUBMITTAL	PROJECT NO.: 23-00904	DATE: FEB 2012	
DRWN. BY: BFT	DSGN. BY: BFT	CHKD. BY: DMM	SHEET NO.: 1 OF 1



LEGEND: CENTER LINE OF TRAIL LIMIT OF CONSTRUCTION EXISTING TREE TREE TO BE REMOVED EXISTING CONTOUR CONCRETE TRAIL ASPHALT TRAIL WITH BASE COLORED TEXTURED CONC

CHANGE ORDER NO. ADJUSTED TRAIL PROFILE.



NOTES:
1) EXISTING FEATURES ARE SHOWN SCREENED (I.E. FADED).

2) INTENT IS FOR PROPOSED GRADE LINE TO GENERALLY FOLLOW EXISTING GRADE. FIELD ADJUSTMENTS MAY BE REQUIRED TO MEET PROJECT INTENT.

3) POSITIVE DRAINAGE MUST BE MAINTAINED ACROSS TRAIL TO THE CREEK. ADJUST GRADING TO ENSURE NO PONDING OF WATER BY TRAIL.

4) REFER TO TREE PROTECTION PLAN FOR TREE PROTECTION DETAILS.

5) TREES NOTED TO BE REMOVED SHALL BE CONSIDERED SUBSIDIARY TO PREP. ROW.

6) FOR ADDITIONAL CENTERLINE INFORMATION, SEE GEOMETRIC DATA SHEET.

7) UTILITY INFORMATION SHOWN IS FROM BEST AVAILABLE INFORMATION AT TIME OF DESIGN. CONTRACTOR SHALL VERIFY LOCATIONS & ELEVATIONS PRIOR TO CONSTRUCTION.

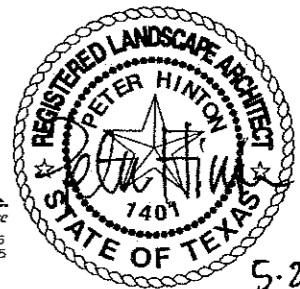
ESTIMATED QUANTITIES

BID NUMBER	DESCRIPTION	UNIT	QTY.
0100 2002	PREPARING ROW	STA	4.00
0666-2012	REFL PAV MRK TY(W)4"(SLD)(100ML)	LF	
0340-2106	D-GR HMA(METH)TY-D PG64-22	SY	443
0340-2011	D-GR HMA(METH)TY-B PG64-22	SY	532
0432 2038	RIPRAP (CONC) (CLA)	CY	
0464 2009	RC PIPE (CL III) (36IN)	LF	
0464 2013	RC PIPE (CL III) (60IN)	LF	
0462-2008	CONC BOX CULVERT (5ftX4ft)	EA	
0400 2005	CEM STABIL BKFL	CY	
0160 2003	FURNISHING AND PLACING TOPSOIL	SY	
0164 2027	CELL FBR MLCH SEED (PERM)(URBAN)(CL Y)	SY	459
0168 2001	VEGETATIVE WATERING	MG	7.2
420-2045	CLA CONC (MISC) (6")	SY	
528-2006	COLORLED TEXTURED CONC (5")	SY	
0479 2001	ADJ MANHS (SANITARY)	EA	
0666-2048	REFL PAV MRK TY (W)24"(SLD)(100ML)	LF	
247-XXX1	FL BS (CMP IN PL)(TYA GR2)(2")	SY	
432-2027	RIP-RAP (SPECIAL)	CY	
459-2011	GABION MATTRESSES (GALV)(12 IN)	SY	

SCALE:
1"=40' HORIZONTAL
1"=4' VERTICAL



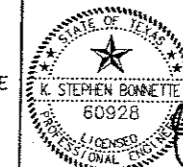
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San Antonio, Texas 78215
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5-25-11



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TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470



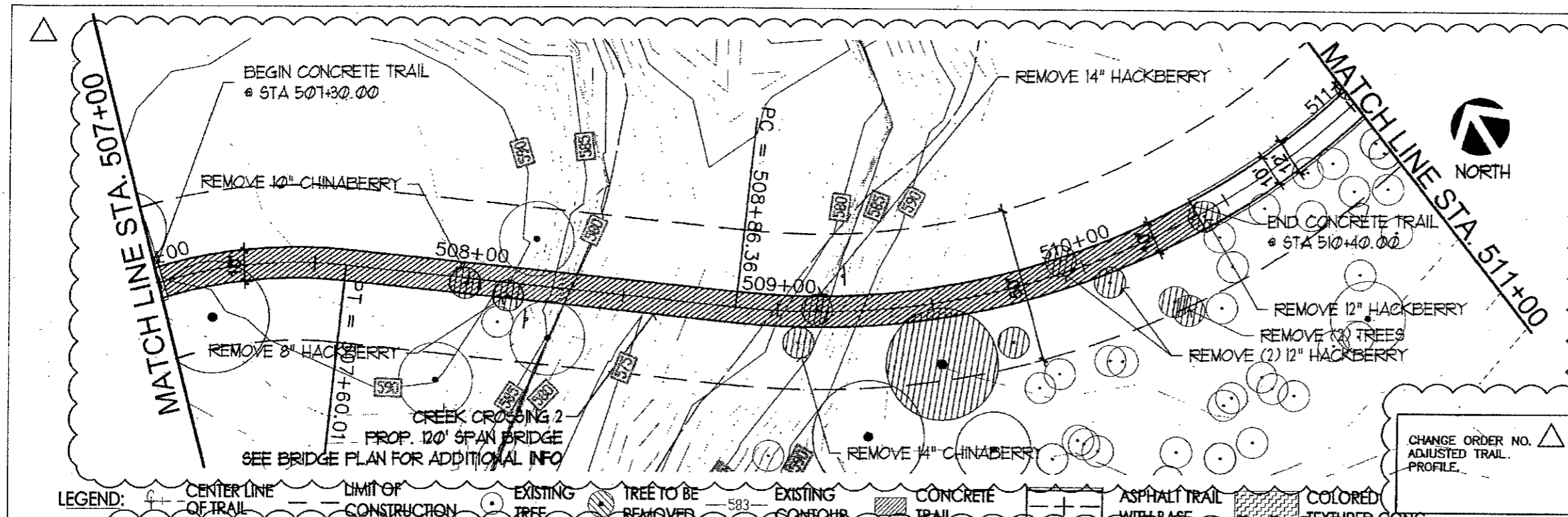
5/25/11
K. STEPHEN BONNETTE P.E. DATE

CITY OF SAN ANTONIO

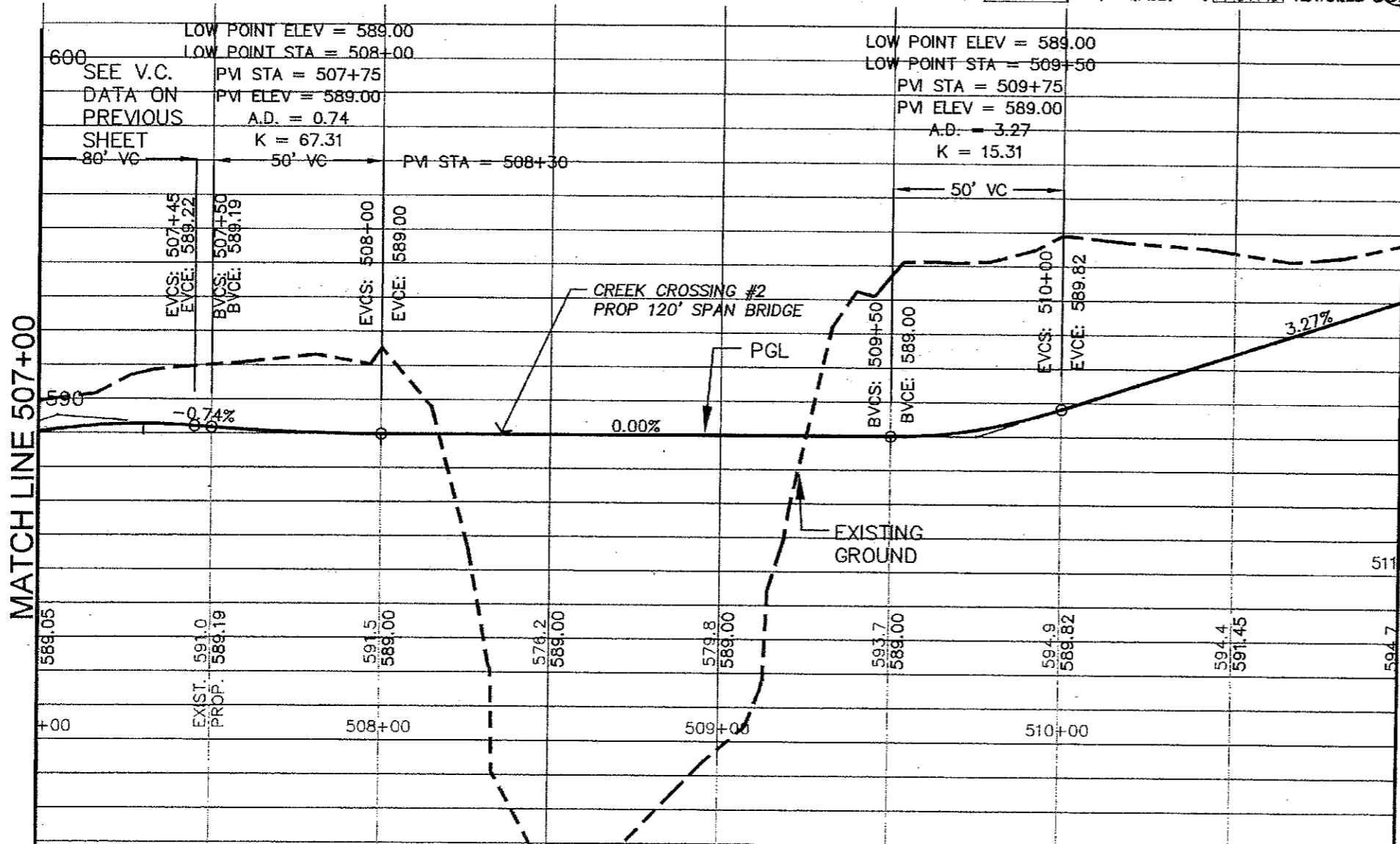
PLAN AND PROFILE
SALADO TRAIL - STA. 503+00 TO STA. 507+00

SHEET 8 OF 45

DN						PROJECT NO.		
OK DN						STP 2000 (624) TE		
DN	CONTROL	SECTION	JOB	DIST.	STATE	COUNTY	HIGHWAY NO.	SHEET NO.
OK DN	0915	12	375	SAT	TX	BEAR		48



LEGEND: CENTER LINE OF TRAIL, LIMIT OF CONSTRUCTION, EXISTING TREE, TREE TO BE REMOVED, EXISTING CONTOUR, CONCRETE TRAIL, ASPHALT TRAIL WITH BASE, COLORED TEXTURED CONC



- NOTES:
- 1) EXISTING FEATURES ARE SHOWN SCREENED (I.E. FADED).
 - 2) INTENT IS FOR PROPOSED GRADE LINE TO GENERALLY FOLLOW EXISTING GRADE. FIELD ADJUSTMENTS MAY BE REQUIRED TO MEET PROJECT INTENT.
 - 3) POSITIVE DRAINAGE MUST BE MAINTAINED ACROSS TRAIL TO THE CREEK. ADJUST GRADING TO ENSURE NO PONDING OF WATER BY TRAIL.
 - 4) REFER TO TREE PROTECTION PLAN FOR TREE PROTECTION DETAILS.
 - 5) TREES NOTED TO BE REMOVED SHALL BE CONSIDERED SUBSIDIARY TO PREP. ROW.
 - 6) FOR ADDITIONAL CENTERLINE INFORMATION, SEE GEOMETRIC DATA SHEET.
 - 7) UTILITY INFORMATION SHOWN IS FROM BEST AVAILABLE INFORMATION AT TIME OF DESIGN. CONTRACTOR SHALL VERIFY LOCATIONS & ELEVATIONS PRIOR TO CONSTRUCTION.

ESTIMATED QUANTITIES				
BID NUMBER	DESCRIPTION	UNIT	QTY.	
0100 2002	PREPARING ROW	STA	4.00	
0666-2012	REFL PAV MKR TY(W)4"(SLD)(100ML)	LF		
0340-2106	D-GR HMA(METH)TY-D PG64-22	SY	67	
0340-2211	D-GR HMA(METH)TY-B PG64-22	SY	60	
0432 2038	RIPRAP (CONC) (CLA)	CY		
0464 2008	RC PIPE (CL III) (36IN)	LF		
0464 2013	RC PIPE (CL III) (60IN)	LF		
0462-2008	CONC BOX CULVERT (5ftX4ft)	EA		
0400 2005	CEM STABIL BKFL	CY		
0160 2003	FURNISHING AND PLACING TOPSOIL	SY		
0164 2027	CELL FBR MLCH SEED (PERM)(URBAN)(CL Y)	SY	1302	
0168 2001	VEGETATIVE WATERING	MG	20.3	
420-2045	CLA CONC (MISC) (6")	SY	377	
528-2006	COLORLED TEXTURED CONC (5")	SY		
0479 2001	ADJ MANHS (SANITARY)	EA		
0666-2048	REFL PAV MKR TY (W)24"(SLD)(100ML)	LF		
247-XXX1	FL BS (CMP IN PL)(TYA GR2)(2")	SY	377	
432-2027	RIP-RAP (SPECIAL)	CY		
459-2011	GABION MATTRESSES (GALV)(12 IN)	SY		

CHANGE ORDER NO. ADJUSTED TRAIL PROFILE.				
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SCALE:
1"=40 HORIZONTAL
1"=4 VERTICAL

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PETER HINTON
REGISTERED LANDSCAPE ARCHITECT
STATE OF TEXAS
1401

PAPE-DAWSON ENGINEERS
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FAX: 210.375.8010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

K. STEPHEN BONNETTE
60928
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

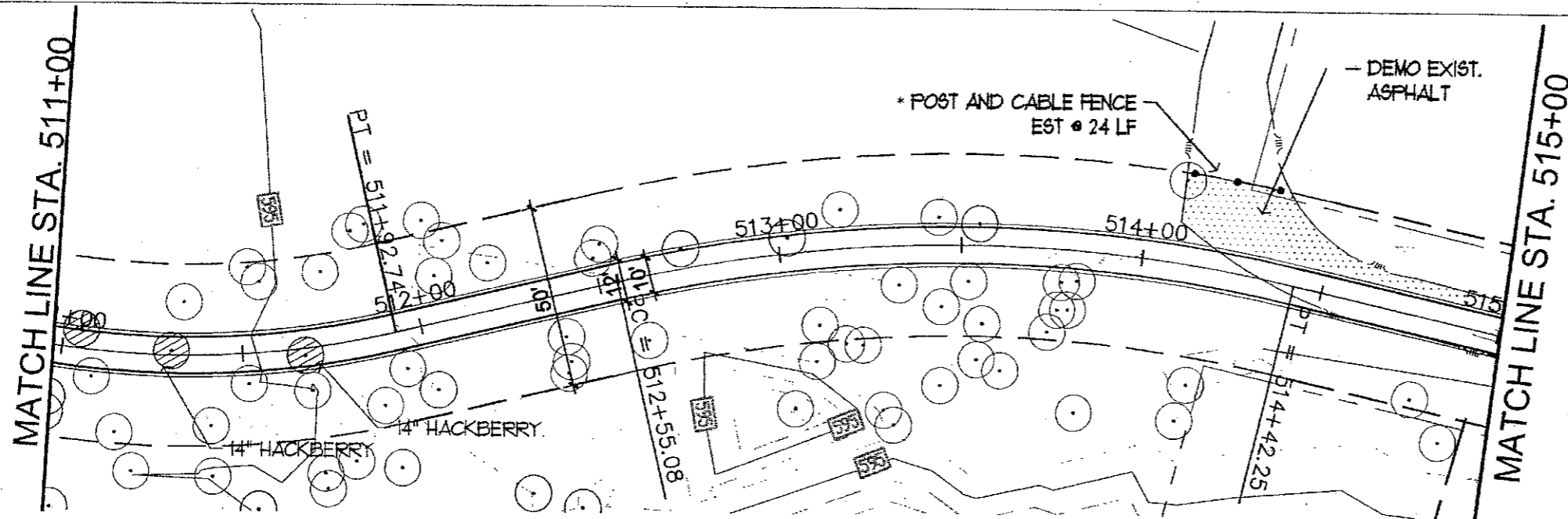
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K. STEPHEN BONNETTE P.E. DATE

CITY OF SAN ANTONIO

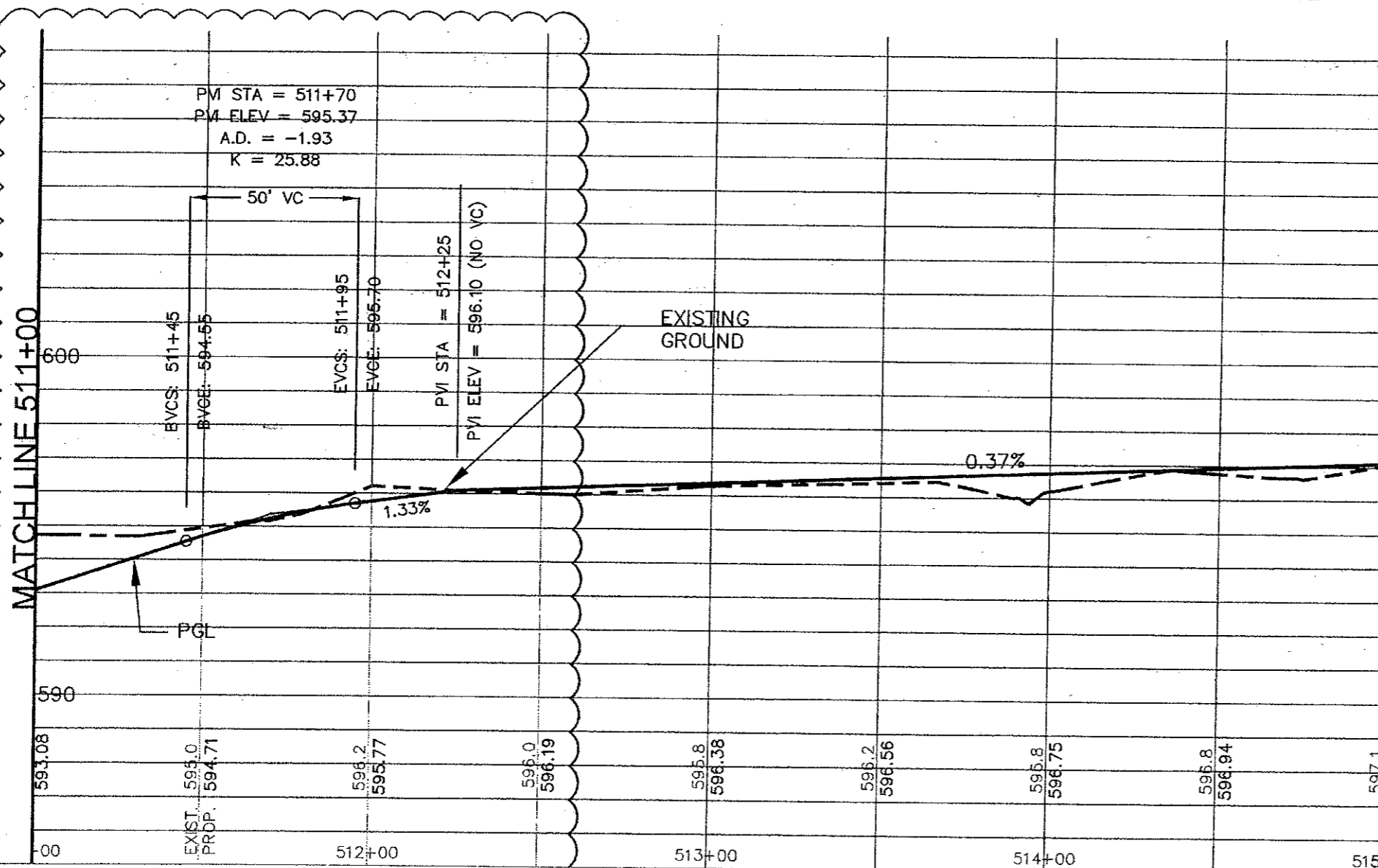
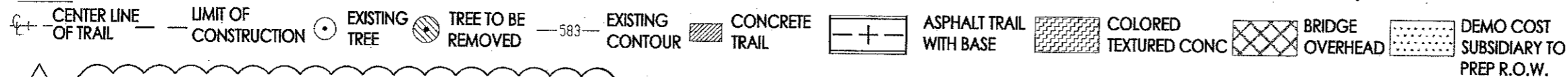
PLAN AND PROFILE
SALADO TRAIL - STA. 507+30.00 TO STA. 511+14.00


SHEET 9 OF 45

DN	CR DN	DI	CK DI	CONTROL	SECTION	JOB	DIST.	STATE	COUNTY	HIGHWAY NO.	SHEET NO.
				0915	12	375	SAT	TX	BEXAR		45



LEGEND:



CHANGE ORDER NO. 
ADJUSTED TRAIL
PROFILE.

NOTES:

1) EXISTING FEATURES ARE SHOWN SCREENED (I.E. FADED).

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ESTIMATED QUANTITIES

BID NUMBER	DESCRIPTION	UNIT	QTY.
0100 2002	PREPARING ROW	STA	4.00
0666-2012	REFL PAV MKR TY(W)4*(SLD)(100ML)	LF	
0340-2106	D-GR HMA(METH)TY-D PG64-22	SY	439
0340-2011	D-GR HMA(METH)TY-B PG64-22	SY	527
0432 2038	RIPRAP (CONC) (CLA)	CY	
0464 2009	RC PIPE (CL III) (36IN)	LF	
0464 2013	RC PIPE (CL III) (60IN)	LF	
0462-2008	CONC BOX CULVERT (5ftX4ft)	EA	
0400 2005	CEM STABIL BKFL	CY	
0160 2003	FURNISHING AND PLACING TOPSOIL	SY	100
0164 2027	CELL FBR MLCH SEED (PERM)(URBAN)(CL Y)	SY	303
0168 2001	VEGETATIVE WATERING	MG	4.7
420-2045	CLA CONC (MISC) (6")	SY	
528-2006	COLORLED TEXTURED CONC (5")	SY	
0479 2001	ADJ MANHS (SANITARY)	EA	
0666-2048	REFL PAV MKR TY (W)24*(SLD)(100ML)	LF	
247-XX1	FL BS (CMP IN PL)(TYA GR2)(2")	SY	
432-2027	RIP-RAP (SPECIAL)	CY	
459-2011	GABION MATTRESSES (GALV)(12 IN)	SY	

* NOTE: FOR CITY SIGNAGE AND AMENITIES SEE CITY SIGNAGE SHEETS FOR DETAILS AND PAY

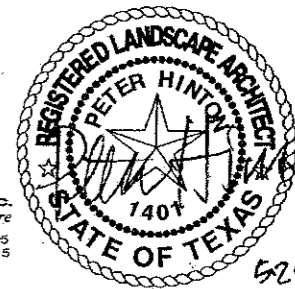
NOTE: FOR POST AND CABLE FENCE AND POST ANCHORS REFER TO CITY SPECIFICATIONS 9004

REMOVE EXISTING ASPHALT AT BUNCHE ROAD EST @ 100 SY, ASPHALT OUTSIDE OF TRAIL LIMITS IS SUBSIDIARY TO PREPARATION OF R.O.W.

SCALE:
1"=40' HORIZONTAL
1"=4' VERTICAL

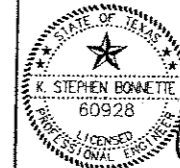
RIALTO
STUDIO

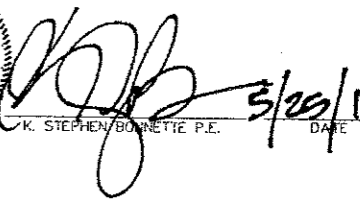
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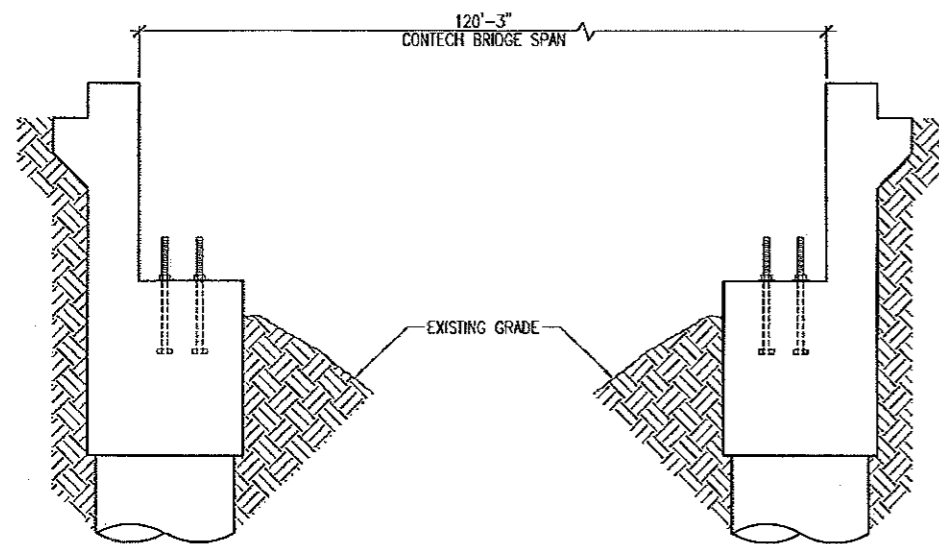

K. STEPHEN BONNETTE P.E.
DATE: 3/25/11

CITY OF SAN ANTONIO

PLAN AND PROFILE
SALADO TRAIL - STA. 511+00 TO STA. 515+00

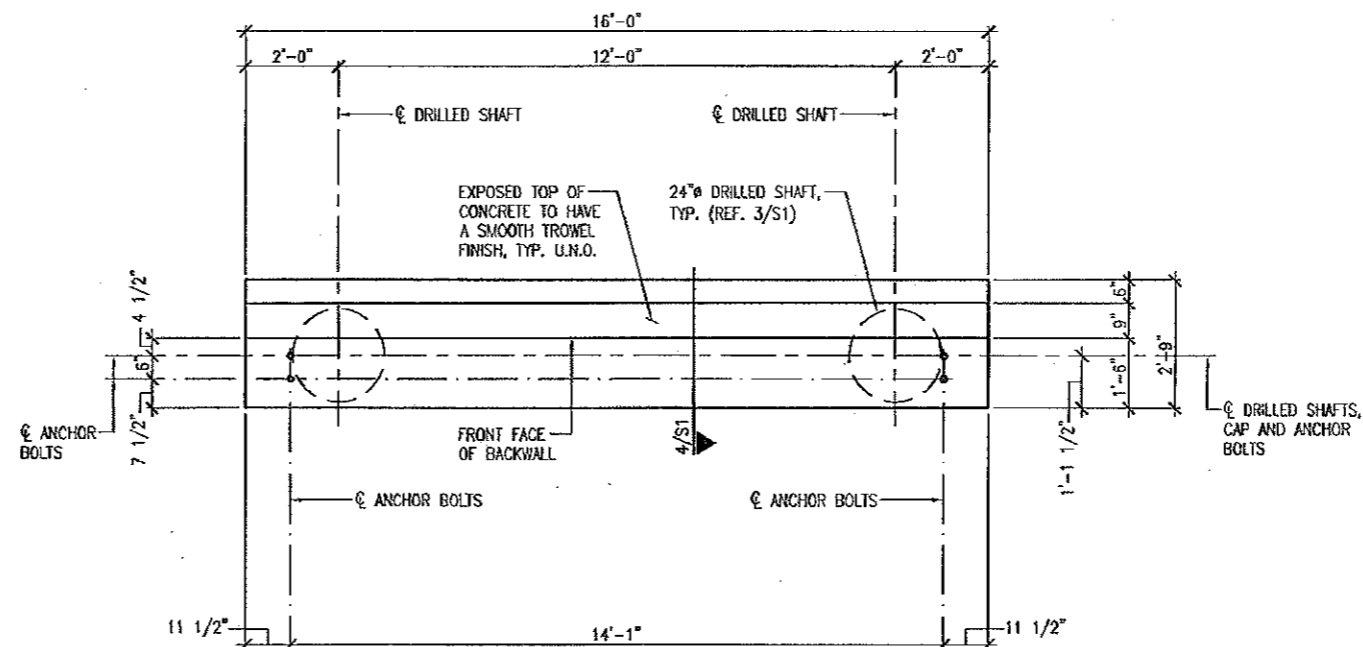
SHEET 10 OF 45

DN						PROJECT NO.		
CK DN						STP 2000 (624) TE		
DW	CONTROL	SECTION	JOB	DIST.	STATE	COUNTY	HIGHWAY NO.	SHEET
CK DW	0915	12	375	SAT	TX	BEXAR		604



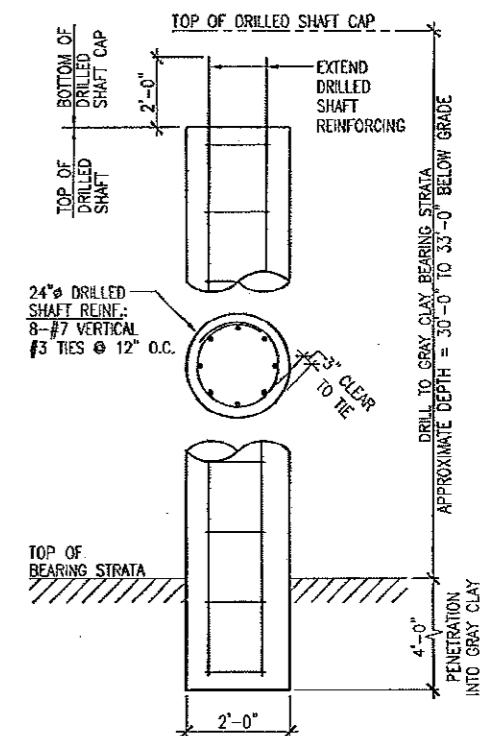
1 BRIDGE ELEVATION

SCALE: N.T.S.



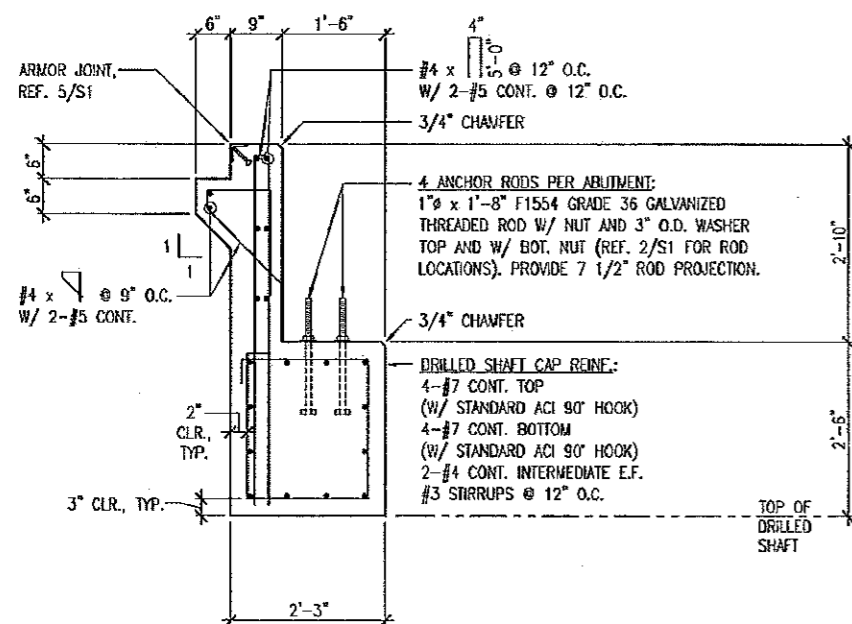
2 BRIDGE ABUTMENT PLAN

SCALE: 1/2"=1'-0"



3 DRILLED SHAFT DETAIL

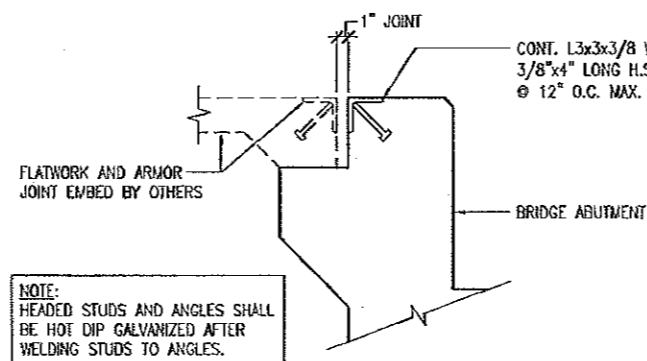
SCALE: N.T.S.



4 CONTINUOUS DRILLED SHAFT CAP DETAIL

SCALE: 3/4"=1'-0"

- PLAN NOTES:
1. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
 2. ALL REINFORCING SHALL BE ASTM A615 GRADE 60.
 3. ALL REBAR BENDS SHALL CONFORM TO CURRENT ACI DETAILING REQUIREMENTS.
 4. ALL DRILLED SHAFTS SHALL BEAR IN GRAY CLAY.

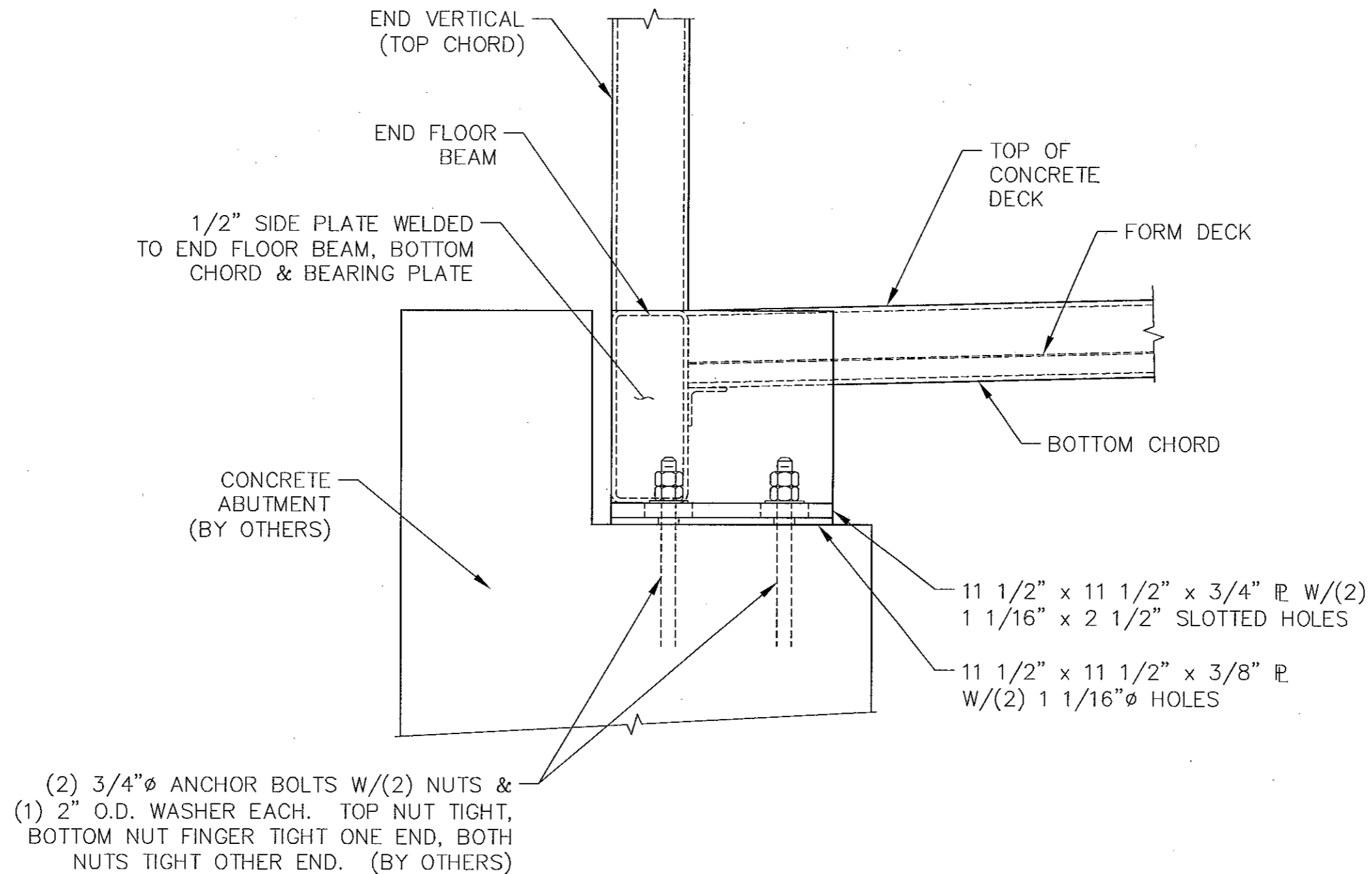


5 ARMOR JOINT EMBED DETAIL

SCALE: 1 1/2"=1'-0"



REVISIONS:					
SHEET TITLE: Bridge Abutment Plan and Details					
Salado Creek Pedestrian Bridge Crossing #2					
LAM Salado Phase 1					
San Antonio, Texas					
PREPARED FOR: CONTECH CONSTRUCTION PRODUCTS INC.					
PROJECT NO.: 2110909					
SHEET NO.: S1					
DRAWN BY: AT	SCALE: AS SHOWN	DATE: 06/29/11	COUNTY: CONT.	SECT.: JOB:	HIGHWAY NO.:



SIDE VIEW – BEARING ASSEMBLY



ALEXANDRIA MN

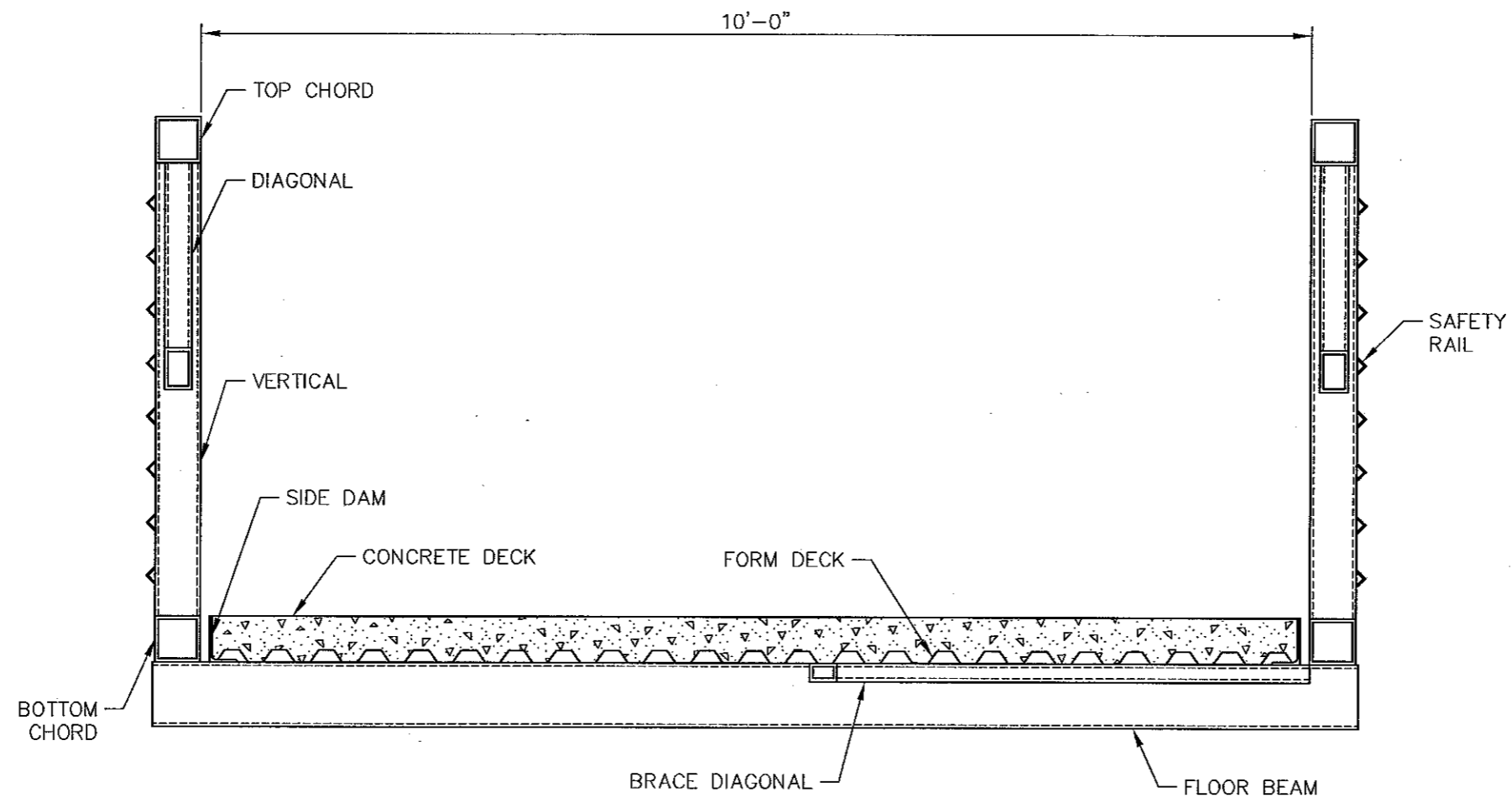
320-852-7500



THESE PLANS, AS INSTRUMENTS OF SERVICE ARE PROPERTY SOLELY OF CONTECH BRIDGE SOLUTIONS INC. THEY ARE NOT TO BE REPRODUCED FOR ANY PURPOSE OR USED IN ANY OTHER LOCATION WITHOUT WRITTEN AUTHORIZATION.

PEDESTRIAN BRIDGE

*PRELIMINARY ONLY
NOT FOR CONSTRUCTION*



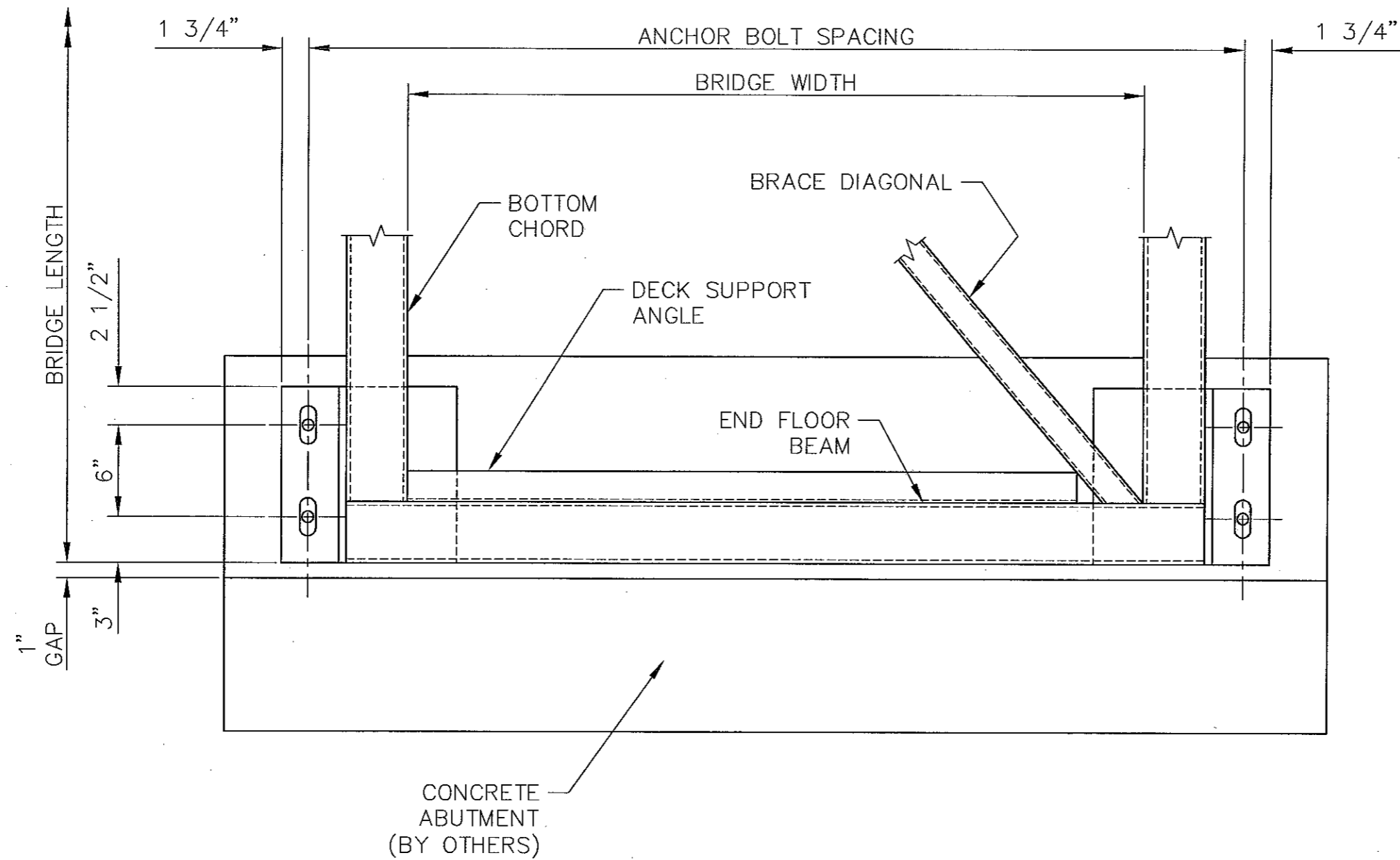
ALEXANDRIA MN 320-852-7500



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PLAN – BEARING ASSEMBLY



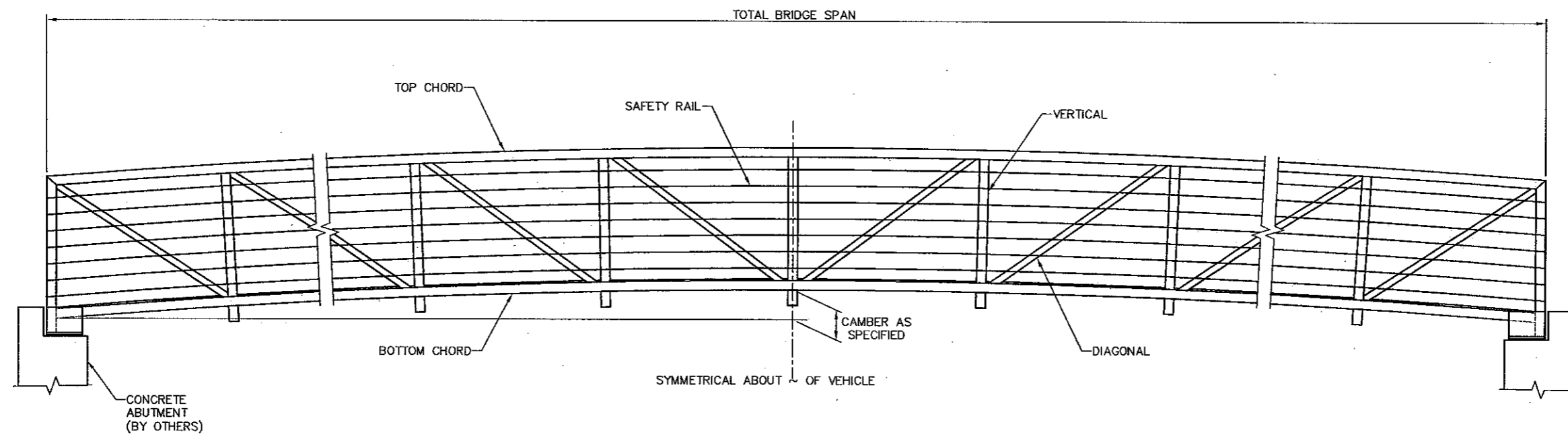
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PEDESTRIAN BRIDGE

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ALEXANDRIA MN 320-852-7500



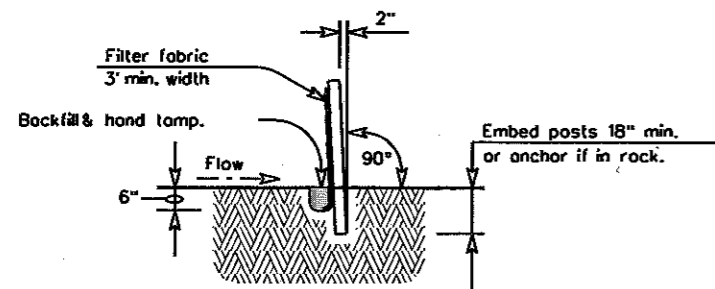
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SOLELY OF CONTECH BRIDGE
SOLUTIONS INC. THEY ARE NOT TO
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*PRELIMINARY ONLY
NOT FOR CONSTRUCTION*

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DATE: FILE:



SECTION A-A

GENERAL NOTES

1. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

PLAN SHEET LEGEND

Sediment Control Fence

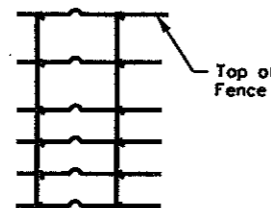
SCF

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

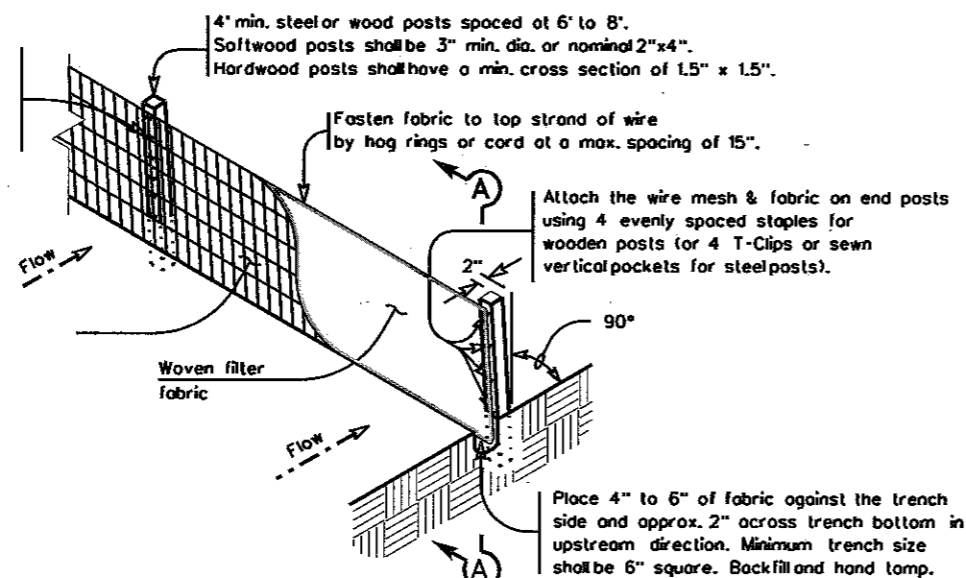
Galv. Hinge joint knot woven mesh (12.5 Ga. Min.) requires a minimum of five horizontal wires spaced at a max. 12 inches apart and all vertical wires spaced at a max. 12 inches apart.



Hinge Joint Knot Woven Mesh (Option)

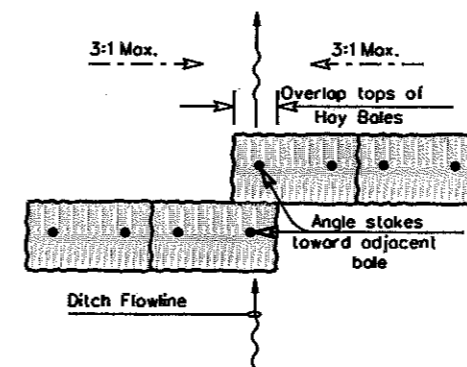
Connect the ends of successive reinforcement sheets or rolls a min. of 6 times with hog rings.

Galv. Welded wire mesh (W.W.M.) with a max. opening size of 2" x 4", or Woven Mesh (W.M.) (See Detail)

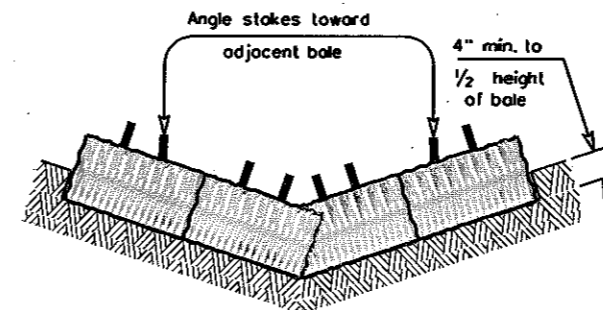


TEMPORARY SEDIMENT CONTROL FENCE

SCF



PLAN VIEW



PROFILE VIEW

PLANS SHEET LEGEND

Baled Hay

BH

BALED HAY USAGE GUIDELINES

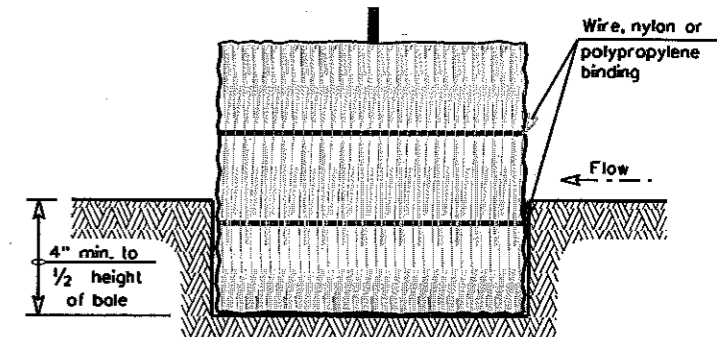
A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flow rate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT² of cross sectional area. Baled hay may be used at the following locations:

1. Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
2. Where the installation will be required for less than 3 months.
3. Where the contributing drainage area is less than 1/2 acre.

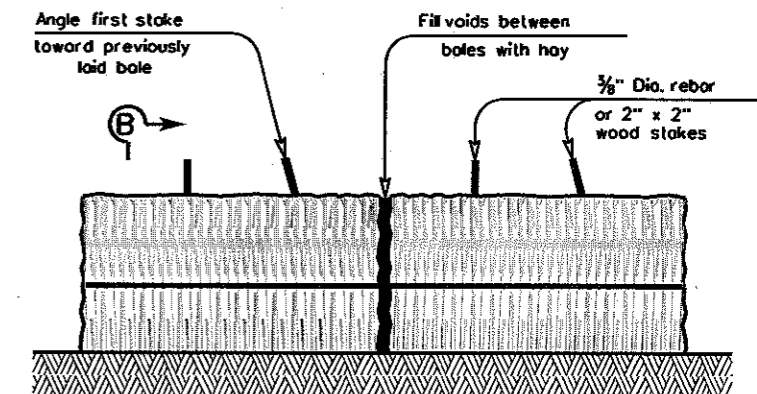
For Baled Hay installations in small ditches, the additional following considerations apply:

1. The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
2. The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.



SECTION B-B



BALED HAY FOR EROSION CONTROL

BH

GENERAL NOTES

1. Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 Lbs.
2. Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetative matter.
3. Hay bales shall be embedded in the soil a minimum of 4" and where possible 1/2 the height of the bale.
4. Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
5. Hay bales shall be securely anchored in place with 3/8" Dia. rebar or 2" x 2" wood stakes, driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Texas Department of Transportation
Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

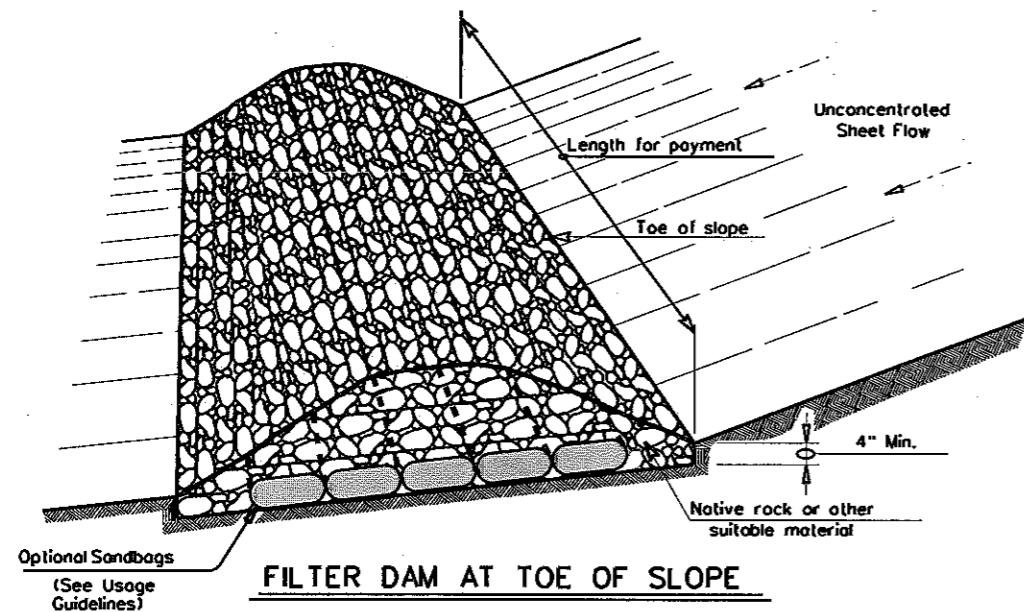
FENCE & BALED HAY

EC(1)-09

FILE: ec109.dgn	DN: TxDOT	CK: AM	DW: TV	CR: BD
© TxDOT June 1993	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY	SHEET NO.	

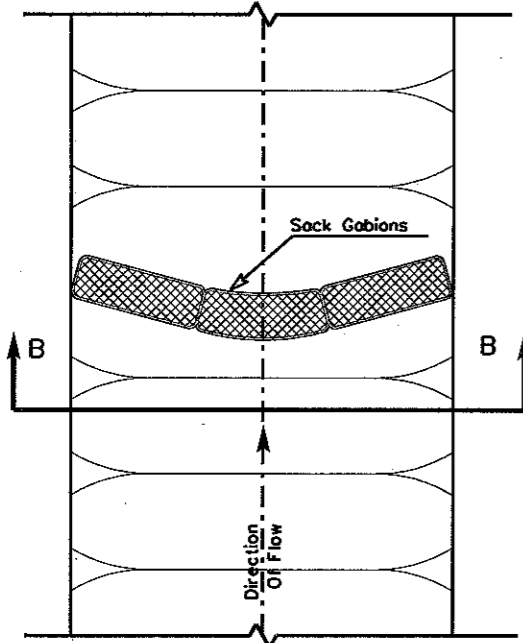
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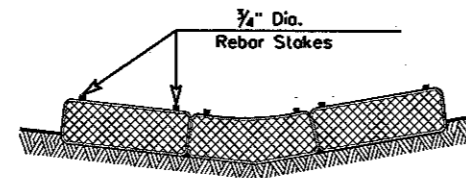


FILTER DAM AT TOE OF SLOPE

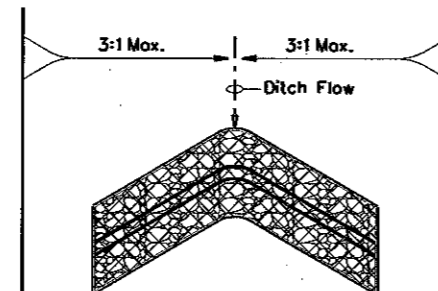
RF01
TYPE 1



PLAN VIEW



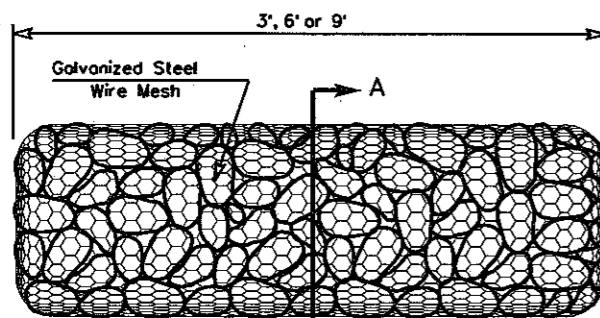
SECTION B-B



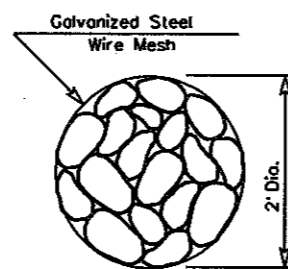
**"V" SHAPE
(Plan View)**

PLANS SHEET LEGEND

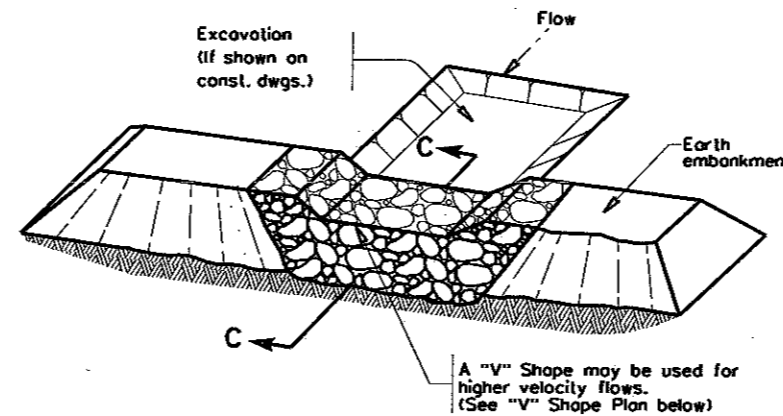
- Type 1 Rock Filter Dam RF01
Type 2 Rock Filter Dam RF02
Type 3 Rock Filter Dam RF03



TYPE 4 (SACK GABIONS)

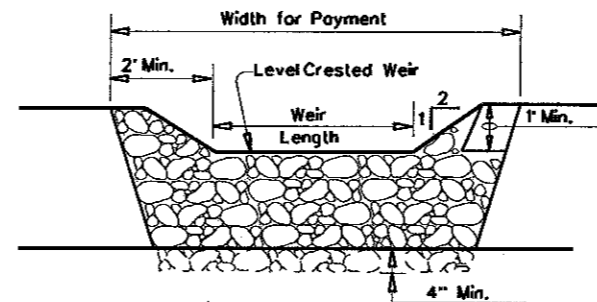


SECTION A-A

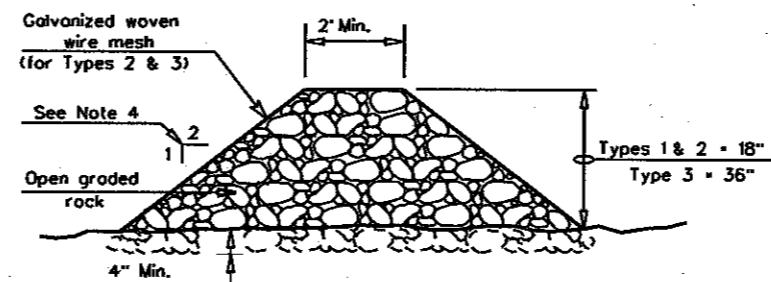


FILTER DAM AT SEDIMENT TRAP

RF01 OR RF02
TYPE 1 OR TYPE 2



PROFILE



SECTION C-C

ROCK FILTER DAM USAGE GUIDELINES

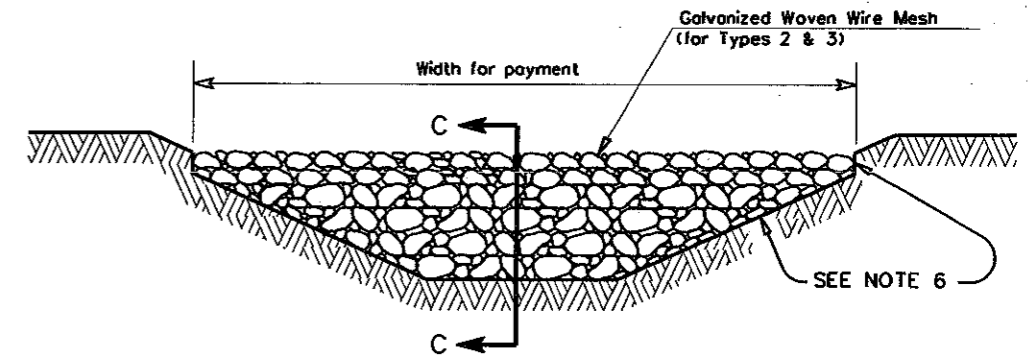
Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approx. 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions): Type 4 May be used in ditches and smaller channels to form an erosion control dam.



FILTER DAM AT CHANNEL SECTIONS

RF01 OR RF02 OR RF03
TYPE 1 OR TYPE 2

GENERAL NOTES

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream of drainage structures, and in roadway ditches and channels to collect sediment.
2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
6. Filter dams should be embedded a minimum of 4" into existing ground.
7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. In stream use the mesh should be secured or staked to the stream bed prior to aggregate placement.
9. Sack Gabions should be staked down with 3/4" dia. rebar stakes.
10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Texas Department of Transportation
Design Division Standard

**TEMPORARY EROSION,
SEDIMENT AND WATER
POLLUTION CONTROL MEASURES**

ROCK FILTER DAMS

EC(2)-93

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FILE: epic.dgn	DN: TxDOT	CK: CL	DW: VP	CK:
© TxDOT May 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS			23-00904	
	DIST	COUNTRY		SHEET NO.
		BEXAR		22